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TRAITÉ

DE

MINÉRALOGIE.

ATLAS.

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IMPRIMERIE DE HENNUYER ET TURPIN, RUE LEMERCIER, 24,
Batignolles

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Gh 2898

TRAITÉ

DE

MINÉRALOGIE

PAR

A. DUFRÉNOY,

INGÉNIEUR EN CHEF DES MINES, MEMBRE DE L'ACADÉMIE ROYALE DES SCIENCES, PROFESSEUR A L'ÉCOLE ROYALE DES MINES ET A L'ÉCOLE ROYALE DES PONTS ET CHAUSSÉES; MEMBRE DE LA SOCIÉTÉ PHILOMATIQUE DE PARIS, DE LA SOCIÉTÉ GÉOLOGIQUE DE FRANCE, DE LA SOCIÉTÉ LINNÉENNE DE NORMANDIE, DE LA SOCIÉTÉ GÉOLOGIQUE DE LONDRES, DE CELLE DU COENOUAILLES, DE LA SOCIÉTÉ HELVÉTIQUE, CORRESPONDANT DES ACADÉMIES ROYALES DES SCIENCES DE BERLIN, DE TURIN, DE L'INSTITUT NATIONAL DES ÉTATS-UNIS DE L'AMÉRIQUE DU NORD, ETC.

TOME QUATRIÈME.

ATLAS.

PARIS

CARILIAN-GOEURY ET Vve DALMONT,

LIBRAIRES DES CORPS ROYAUX DES PONTS ET CHAUSSÉES ET DES MINES,

QUAI DES AUGUSTINS, 39.

1845

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NOTATION

ADOPTÉE

POUR REPRÉSENTER LES FACES DES CRISTAUX,

ET

MÉTHODE POUR LES CONSTRUIRE.

J'ai désigné avec Haüy les faces des formes primitives par les lettres P, M, T, les angles par des voyelles, et les arêtes par des consonnes. Les parties semblables portent la même lettre, en sorte que dans le cube les huit angles sont marqués de la lettre A, tandis que ses douze arêtes le sont par la lettre B.

Les facettes secondaires sont désignées par de petites lettres qui rappellent les éléments du cristal sur lesquels elles sont placées ; un chiffre indique, en outre, la loi qui préside à leur dérivation. Cette méthode montre, par la simple inspection de la figure, toute la symétrie des cristaux ; elle permet en même temps de saisir les rapports des différentes facettes entre elles, ainsi qu'avec la forme primitive.

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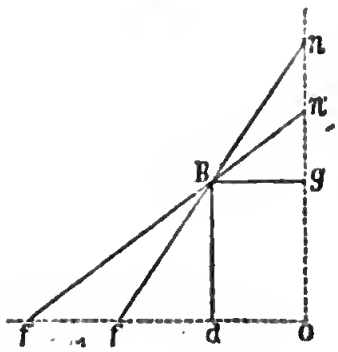
Fig. I.



Une modification fn, fig. I, naissant sur l'arête B d'un prisme rectangulaire par un plan tangent, sera représentée, d'après cette notation, par le symbole b^1, le chiffre 1 rappelant que la facette nouvelle est le résultat d'un décroissement d'une rangée en hauteur et d'une rangée en largeur ; en effet, fn étant la trace de ce plan, cette ligne coupe les axes aux distances $gn = H$, et $df = C$, longueur du côté perpendiculaire à l'arête B. Le symbole $b^{1/2}$ indique une facette donnée par un décroissement d'une rangée en hauteur sur deux en largeur. Pour le démontrer, je remarque que le point B représentant la projection de l'arête B, O le centre du cristal, Og la hauteur d'une molécule, et Bg sa largeur, la ligne $f'n'$ sera la trace du plan produit par la loi indiquée ; or, cette ligne coupe l'axe vertical Og à la distance $gn' = 1/2\ gn = 1/2\ Bd = 1/2\ H$, sa notation sera donc $b^{1/2}$. On aurait de même $b^{1/3}$ pour une facette donnée par un décroissement d'une rangée en hauteur sur trois en largeur.

La fig. 271, pl. 44, appartenant à la chaux phosphatée, fournit un exemple de trois séries de facettes placées sur les arêtes de la base de la forme primitive. Leurs lois de dérivation sont, deux rangées en hauteur sur une en largeur, une rangée sur une, enfin, une de hauteur sur deux de largeur; leurs symboles sont par conséquent b^2, b^1, $b^{1/2}$. La même

figure fournit des exemples de modifications placées sur les angles A ; elles sont marquées a^2, a'; c'est-à-dire que la première, qui est produite par un décroissement de deux rangées en hauteur sur une de largeur, coupe la hauteur à une distance 2H, tandis que la seconde est également inclinée sur les faces qui forment l'angle A.

Les modifications sur les arêtes ne sont placées que d'une seule manière; celles sur les angles peuvent présenter trois dispositions, suivant qu'elles coupent les faces de la forme primitive parallèlement à la diagonale de P, de M ou de T (voir vol. Ier, p. 156). Ces différences sont exprimées par la position du chiffre; on aura donc a^1, ou a^2, fig. 271, pl. 44, pour des modifications placées sur l'angle A, coupant l'axe à des distances 1 et 1/2, et dont les traces sur P seraient parallèles à la diagonale opposée à l'angle sur lequel la modification a eu lieu. Le signe a_2, fig. 272, pl. 44, indique une modification placée sur l'angle A, coupant la face de droite de cet angle parallèlement à sa diagonale, et donnée par un décroissement de deux rangées en hauteur sur une en largeur.

Enfin, les facettes qui résultent de décroissements intermédiaires sont marquées de la lettre *i*, ainsi qu'on le voit dans la fig. 246, pl. 40, appartenant à la *chaux fluatée*. Pour faire connaître la loi de décroissement qui les régit, j'ai écrit au-dessous de la figure, ainsi que dans le texte, le symbole qui les représente. Dans cet exemple, la facette *i*

coupe les côtés aux distances 1, 1/2 et 1/4, ce que l'on exprime par le signe $i = (b^1\ b^{1/2}\ b^{1/4})$.

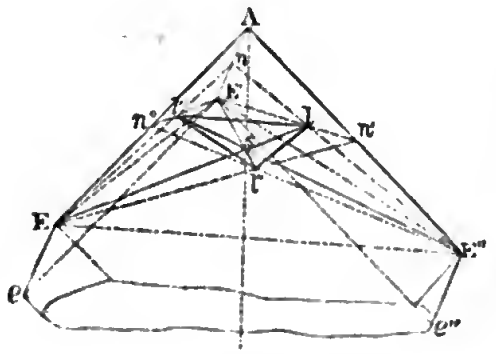
Construction des cristaux. — Ces détails sur la notation adoptée donnent le moyen de construire les cristaux; en effet, soit, fig. 267, un prisme à six faces surmonté d'un pointement à six faces, donné par une rangée en hauteur et une rangée en largeur. Pour construire ce pointement, il suffit de prolonger d'une longueur, ou de la demi-hauteur du prisme, l'axe parallèle aux arêtes verticales, et de mener du point qui en résulte des lignes aux angles du prisme : ces lignes sont les intersections des faces b^1. Si la loi de décroissement eût été $b^{1/2}$, ainsi que cela a lieu dans la fig. 270, pl. 44, comme cette notation correspond à une rangée en hauteur sur deux en largeur, ou une demie en hauteur sur une en largeur, on n'aurait prolongé l'axe que d'une demi-hauteur.

La construction des facettes sur les angles est aussi simple; seulement, dans ce cas, au lieu de se servir comme point de départ du prisme, fig. 263, pl. 43, on commencera par construire le prisme à six faces tangent aux arêtes H; ce sont les angles de ce nouveau prisme qui donneront les lignes d'intersection des faces a^1 ou $a^{1/2}$, suivant qu'on les mènera d'un point situé sur l'axe à une distance H ou 1/2 H.

La construction des modifications sur les rhomboèdres est en apparence un peu plus compliquée. Je vais indiquer par

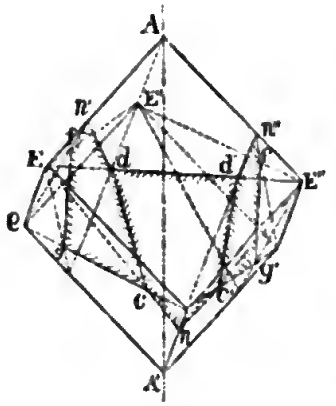
deux exemples la méthode que l'on doit suivre pour les obtenir. Je supposerai d'abord qu'on veuille construire un rhomboèdre, placé sur l'angle sommet donné par un décroissement d'une rangée en hauteur et de deux en largeur, dont l'expression est a^2.

Fig. II.



Soit, figure II, le rhomboèdre primitif: je mène par la diagonale EE'' un plan coupant l'arête du sommet opposé AE' en son milieu *n*; comme il y a trois faces symétriques, je répéterai la même construction sur les trois diagonales correspondantes : on obtient alors trois plans triangulaires EE''*n*, EE'*n'*, E'E''*n''*. Ces plans se coupent deux à deux suivant les lignes E*l*, E''*l'*, E*l'*. Ces trois lignes se rencontrent en un point S qui est le sommet du nouveau rhomboèdre; leur direction donne celle des trois arêtes culminantes, en sorte que le sommet supérieur du nouveau rhomboèdre est S*lll'*. On répétera la même construction au sommet inférieur pour compléter le cristal, les fig. 90, pl. 67, et 97, pl. 68, qui appartiennent au fer oligiste, montrent le primitif P surmonté de ce pointement très-obtus.

Fig. III.



Je choisirai pour second exemple la modification e^3, représentant un rhomboèdre aigu naissant sur les angles E, par un décroissement d'une rangée en hauteur et de trois en largeur : soit, fig. III, le rhomboèdre primitif. Les modifications dans ce cas ayant lieu sur les angles latéraux, les plans coupants devront s'appuyer sur les diagonales, de manière à enlever ces angles. Je prendrai, en conséquence, sur l'arête culminante inférieure A'*e'* un point *n* placé au tiers de la longueur ; par ce point et la diagonale EE'', je ferai passer un plan qui produira une troncature menée suivant la loi e^3. Les points *n'* et *n''* étant pris à distances E*n'* = 1/3 AE, E''*n''* = 1/3 AE'', les plans coupants *ee'n'*, *e'e''n''*, rempliront les mêmes conditions, et leurs intersections respectives *cd*, *c'd'*, *fg*, *f'g'*, seront les arêtes du nouveau rhomboèdre. Pour avoir les trois autres faces du rhomboèdre e^3, il faudrait faire la même construction sur les diagonales *ee''*, EE', E'E'', placées sur le derrière du cristal. La fig. 91, pl. 67, qui appartient également au fer oligiste, représente l'association du primitif et de ce nouveau rhomboèdre ; pour l'avoir complet, il suffirait de prolonger les arêtes *cd*, *c'd'*, *cd*, *fg*, *c'd'*, *f'g'*, ainsi que les arêtes de derrière correspondantes.

Si le rhomboèdre secondaire était donné par le signe $e^{1/3}$, il faudrait mener le plan EE''*n* de manière qu'il coupât l'arête

du sommet à une longueur triple de la sienne, ce qui reviendrait à mener un plan par le sommet A, et par des points placés au tiers des arêtes E*e*′, E*e*, à partir de l'angle E.

Les exemples que je viens de donner embrassent les cas les plus difficiles, et suffisent pour guider les personnes qui voudraient construire des cristaux d'après leur loi de dérivation.

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DIAMANT

Fig. 1

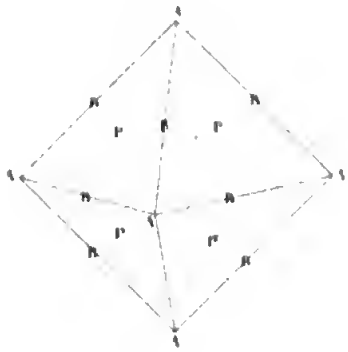

Fig. 2

Fig. 3

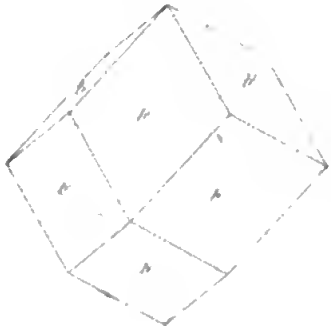

Fig. 4

Fig. 5

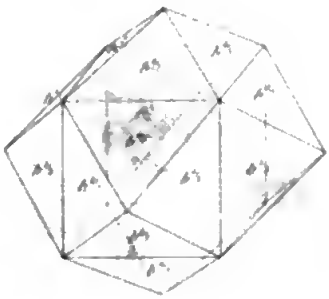

Fig. 6

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Fig. 7

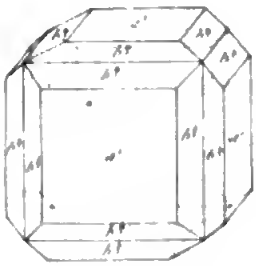


Fig. 8

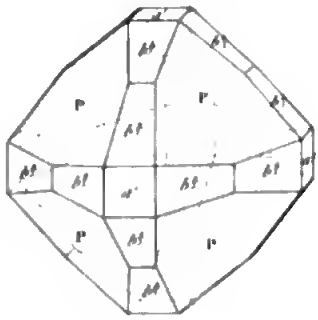


Fig. 9

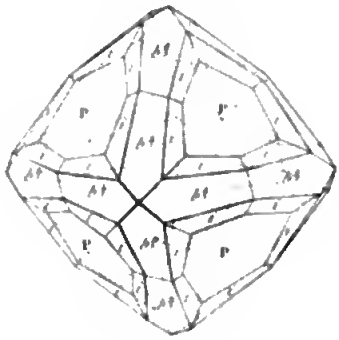


Fig. 10

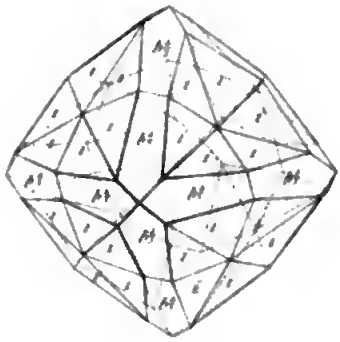


Fig. 11

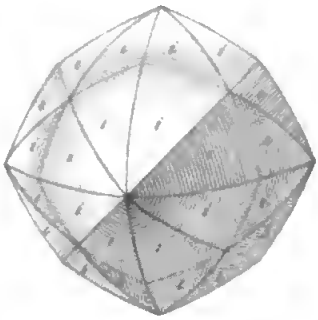
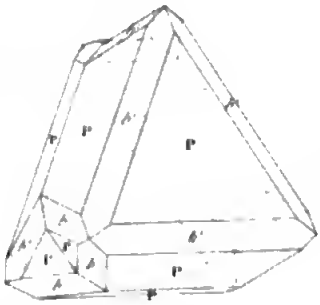


Fig. 12



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QUARTZ

Fig 13

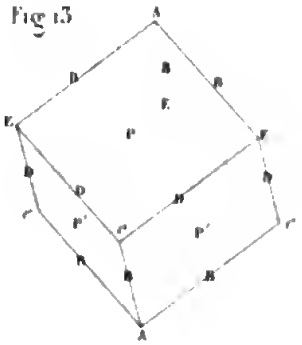

Fig 14

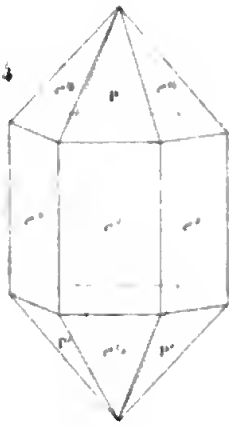

Fig 15

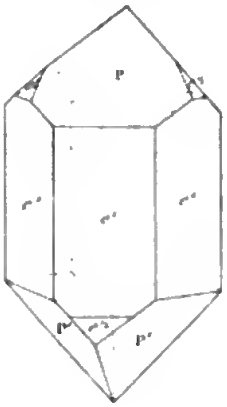

Fig 16

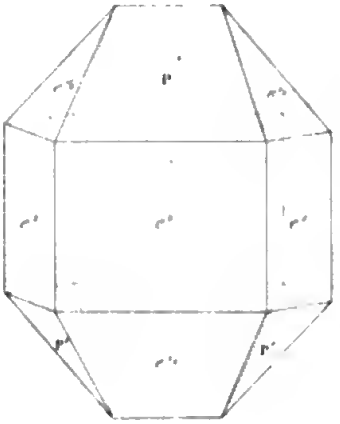

Fig 17

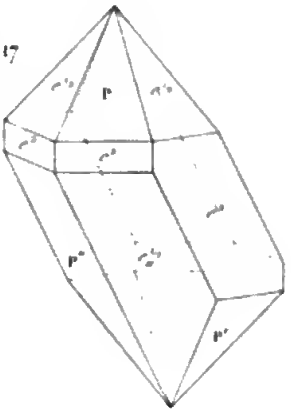

Fig 18

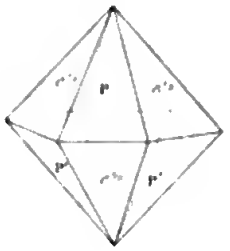

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Fig 19

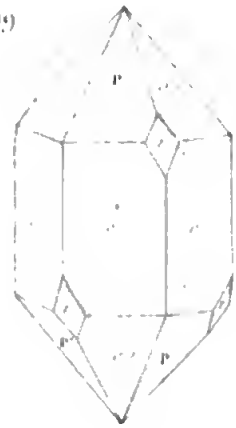


Fig 20

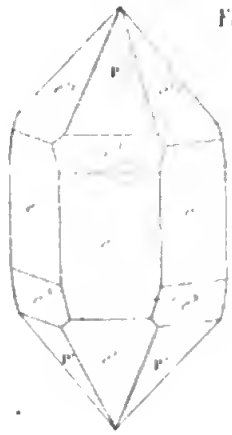
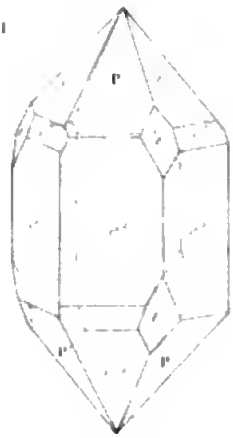


Fig 21



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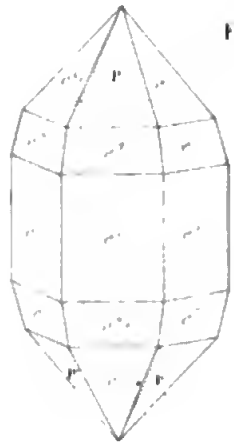

Fig 23

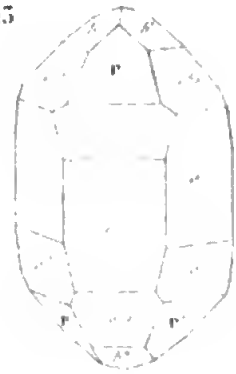

Fig 24

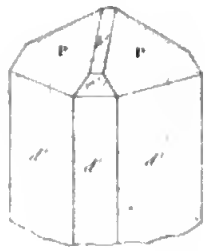

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Fig. 25

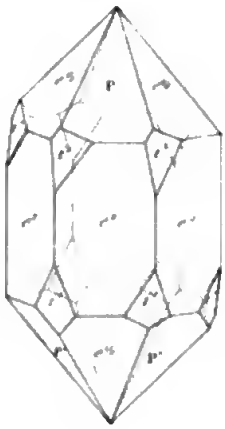

Fig. 26

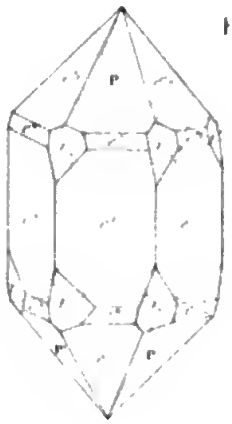

Fig. 27

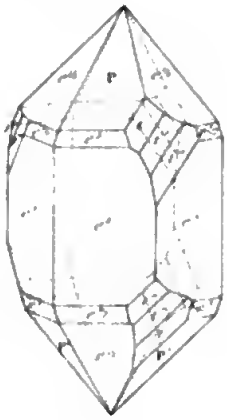

Fig. 28

Fig. 29

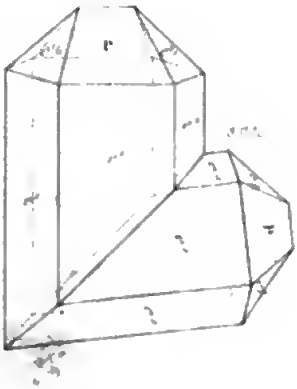

Fig. 28''

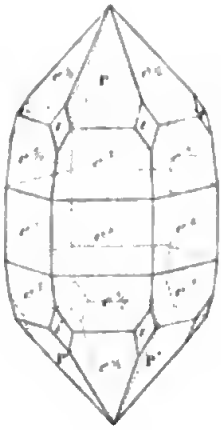

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Fig. 30

Fig. 31

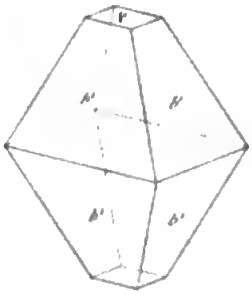


Fig. 32.

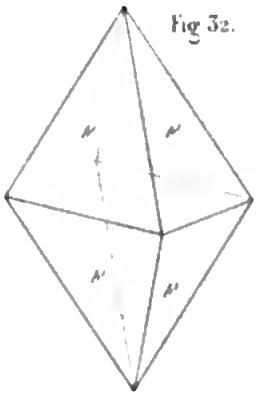


Fig. 33

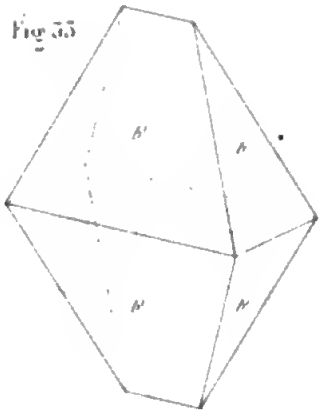


Fig. 34

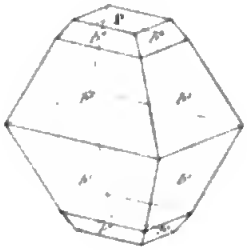


Fig. 35

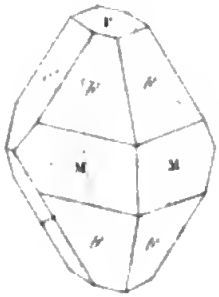
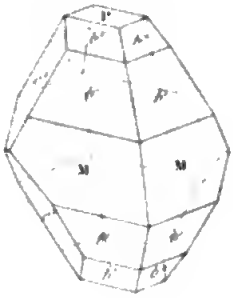


Fig. 36



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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SOUFRE.

Fig 37

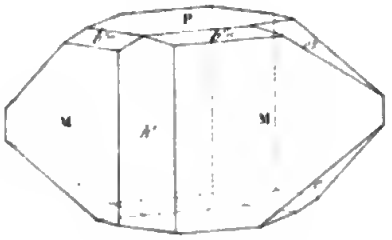
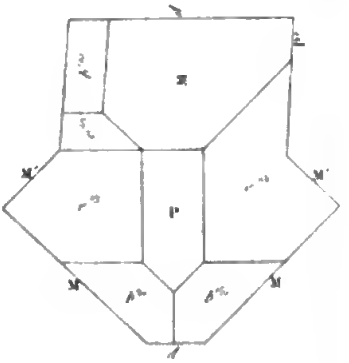


Fig 38



ARSENIC SULFURÉ ROUGE

Fig 39

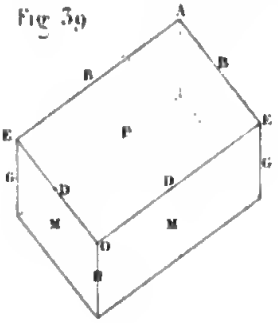


Fig 40

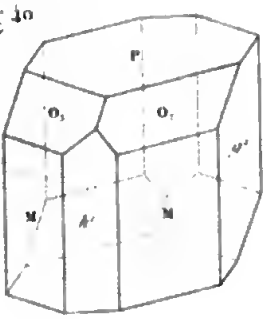
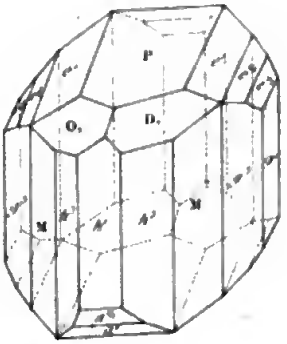


Fig 41



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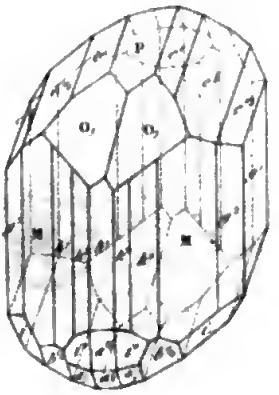


ARSENIC SULFURÉ JAUNE

Fig. 43.

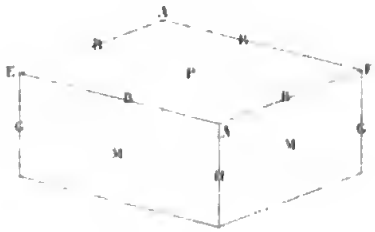
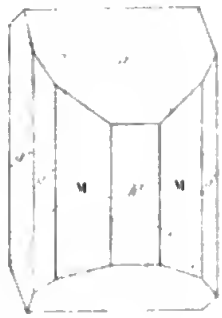


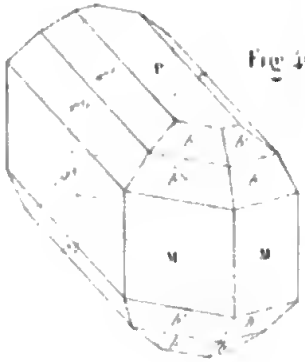
Fig. 44



POTASSE SULFATÉE

Fig. 45

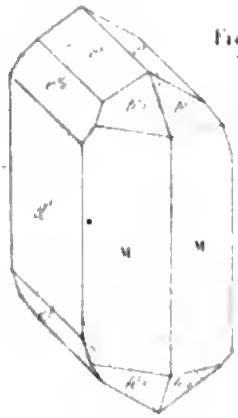
Fig. 46



POTASSE NITRATÉE

Fig. 47

Fig. 48



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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SOUDE BORATÉE

Fig. 49

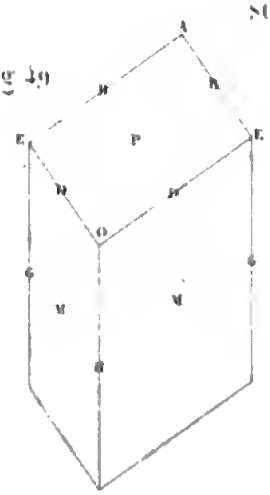
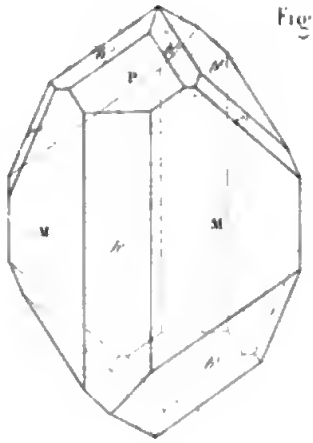


Fig. 50



SOUDE CARBONATÉE

Fig. 51

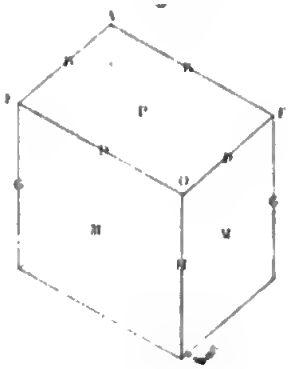
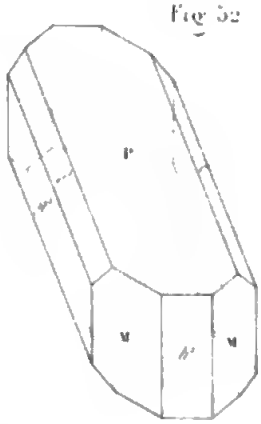


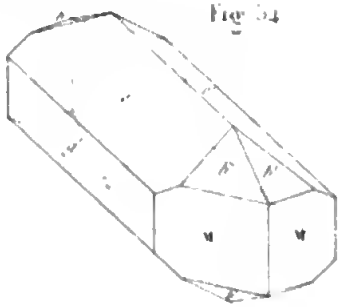
Fig. 52



SOUDE CARBONATÉE PRISMATIQUE

Fig. 53

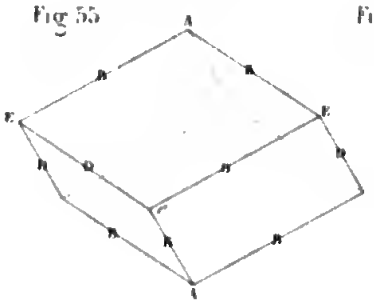
Fig. 54



NAPOLI

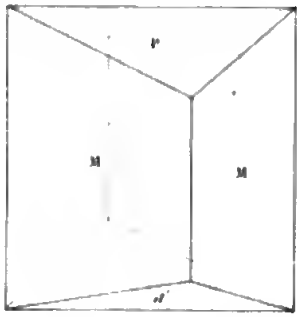
SOUDE NITRATÉE

Fig 55



TRONA

Fig 56



GAY-LUSSITE

Fig 57

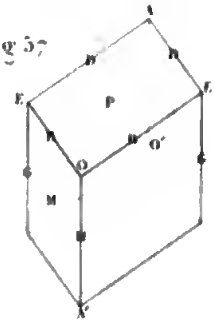


Fig 58

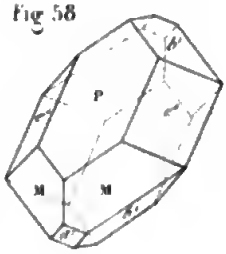
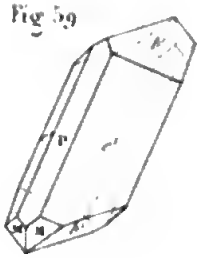


Fig 59



SOUDE SULFATÉE

Fig 60

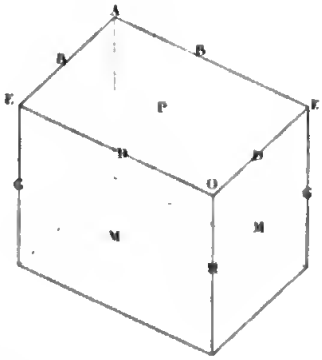
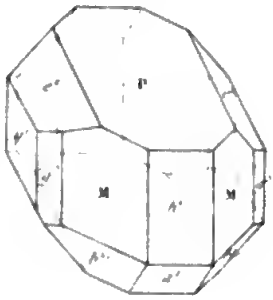


Fig 61



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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GLAUBÉRITE

Fig 62.

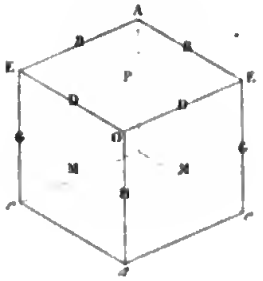
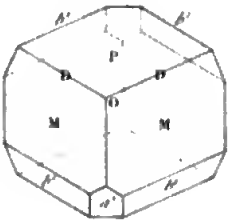


Fig 63



BARYTE CARBONATÉE

Fig 64

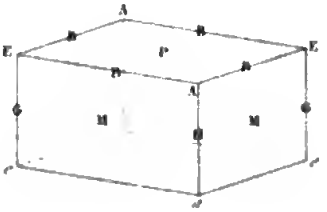


Fig 65

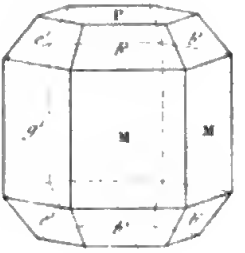
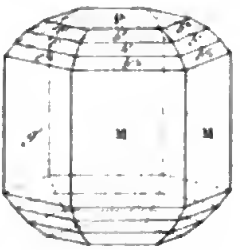


Fig 66



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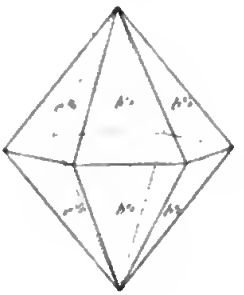


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

BARYTE CARBONATÉE.

Fig 68

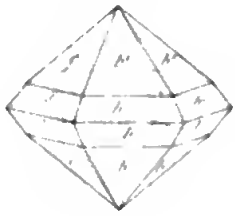
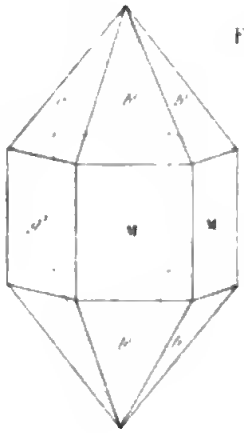


Fig 69



BARYTO-CALCITE

PRISME OBLIQUE.

Fig 70

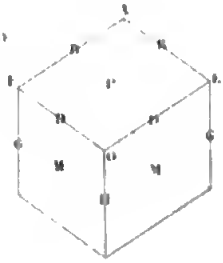
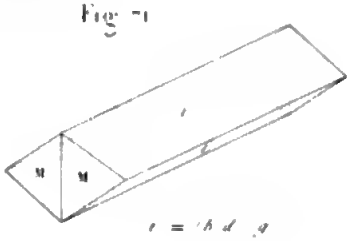
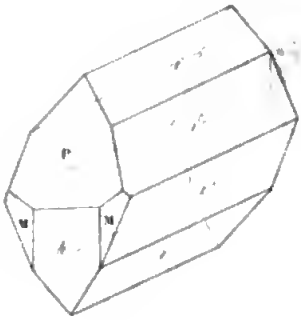


Fig 71



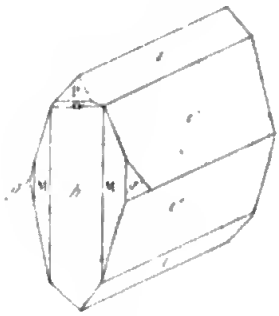
$t = (h\ d\ g)$

Fig 72.



$t' = h\ d'\ g'$

Fig 73.



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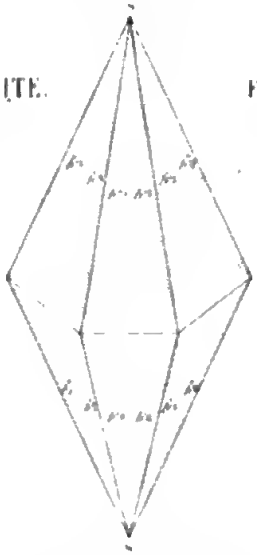
BARYTO-CALCITE.

PRISME DROIT

Fig. 74.



BARYTE SULFATÉE

PRISME RHOMBOIDAL DROIT

P FORME DOMINANTE

Fig. 75

Fig. 76.

Fig. 77

Fig. 78

Fig. 79

Fig. 80

NAPOLI

Pl. 14

BARYTE SULFATÉE.

Fig. 81

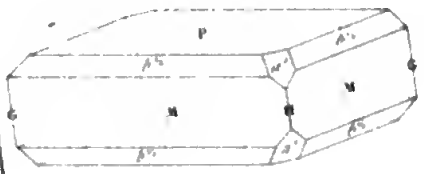


Fig. 82

Fig. 83.

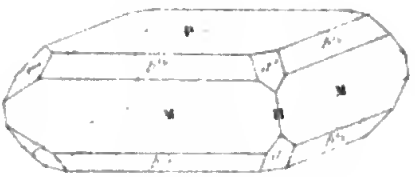
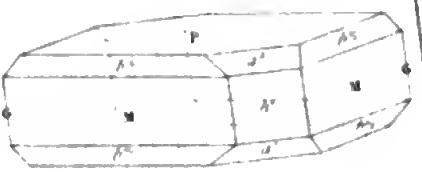


Fig. 84



PRISME RECTANGULAIRE DROIT

SECONDE FORME DOMINANTE

Fig. 85

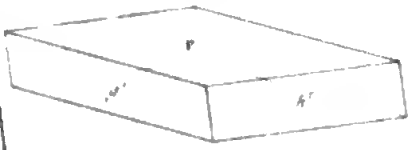


Fig. 86

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BARYTE SULFATÉE

Fig. 87.

Fig. 88

Fig. 89

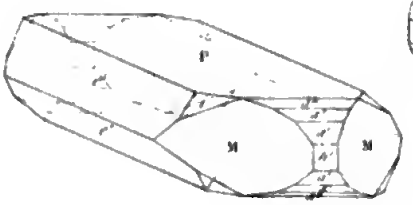


Fig. 90

Fig. 91

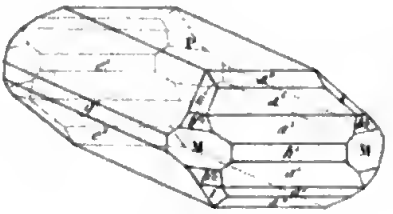
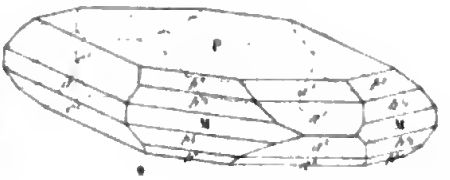


Fig. 92



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NAPOLI

BARYTE SULFATEE

Fig 93.

Fig 94

PRISME DONNÉ PAR LE BISEAU a'

3e FORME DOMINANTE

Fig 95

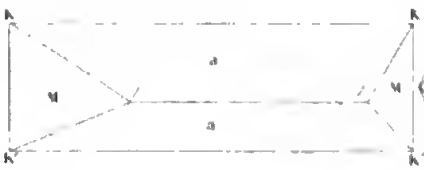

Fig 96

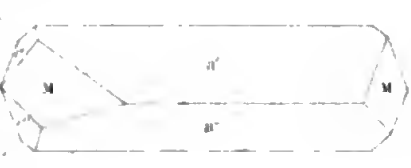

Fig 97

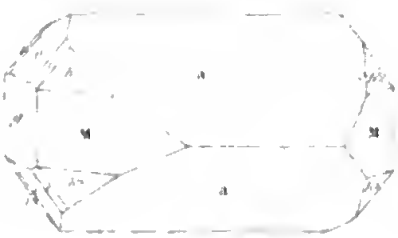

Fig 98

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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BARYTE SULFATÉE.

Fig 99

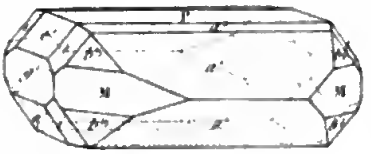


Fig 100.

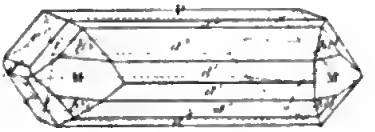
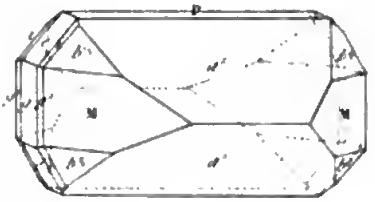


Fig 101



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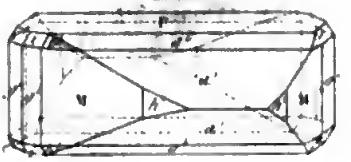
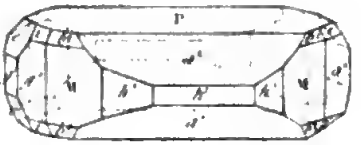


Fig 103



PRISME DONNÉ PAR LE BISEAU e

2me FORME DOMINANTE

Fig 104

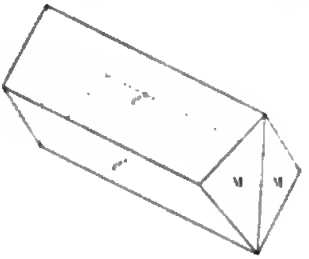
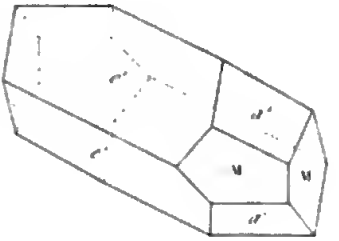


Fig 105



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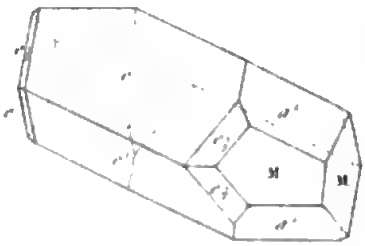
BARYTE SULFATÉE

Fig 106



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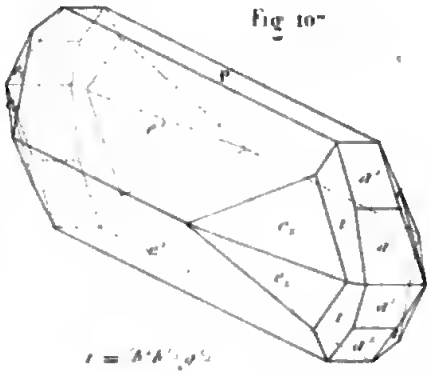


OCTAÈDRE RECTANGULAIRE

5e FORME DOMINANTE

Fig 108

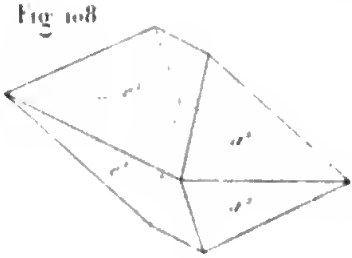
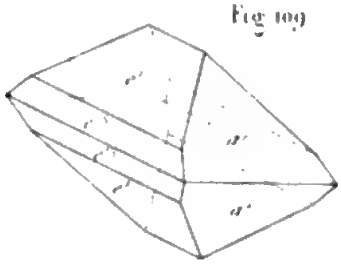


Fig 109



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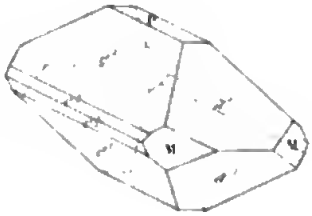
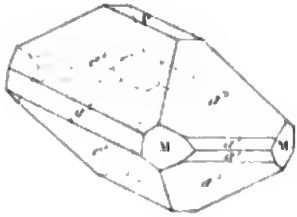


Fig 111



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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STRONTIANE CARBONATÉE

Fig 112.

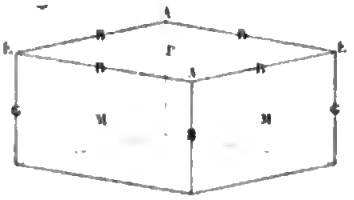
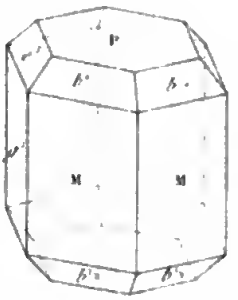


Fig 113



STRONTIANE SULFATÉE

Fig 114

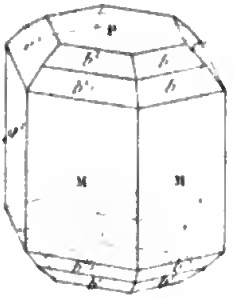


Fig 115

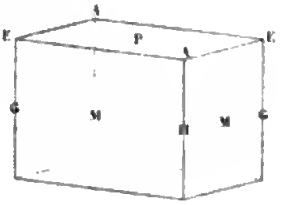
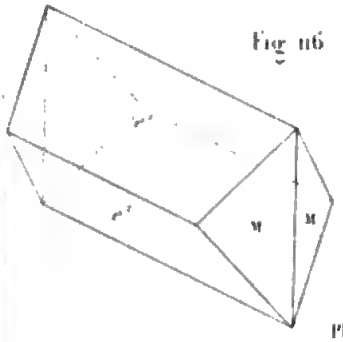


Fig 116



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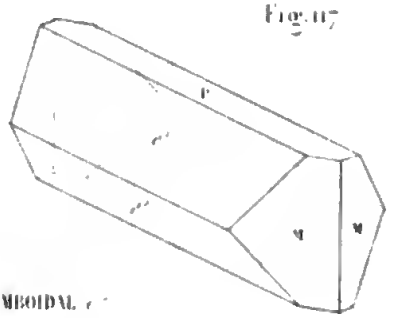


PRISME RHOMBOIDAL

2e FORME DOMINANTE

Fig 118

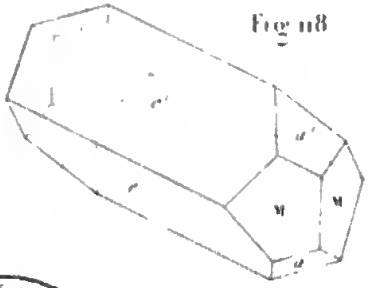
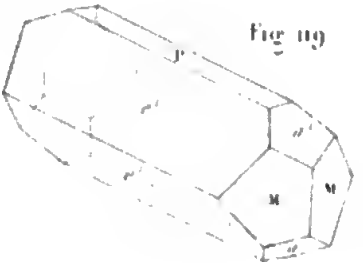


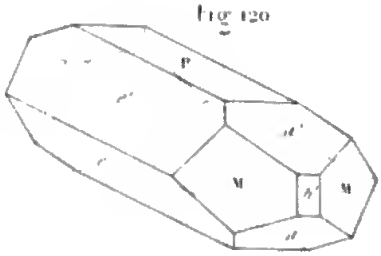
Fig 119



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

STRONTIANE SULFATÉE.

Fig 120



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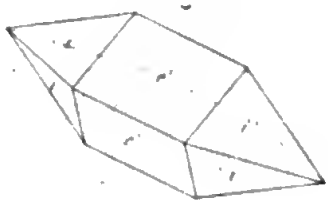

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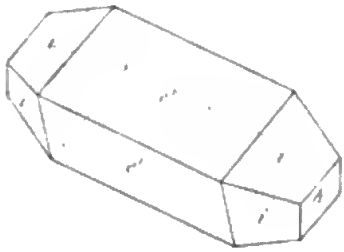

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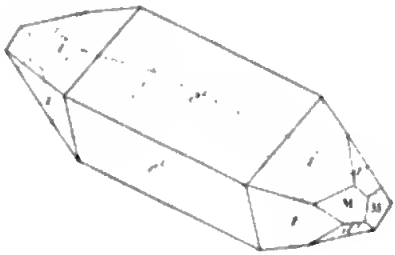

Fig 124

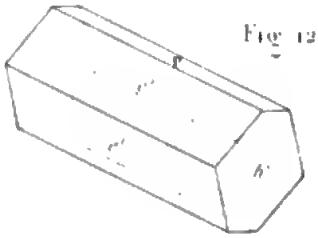

Fig 125

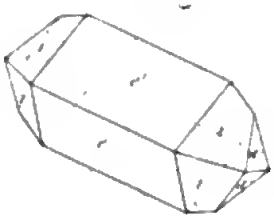

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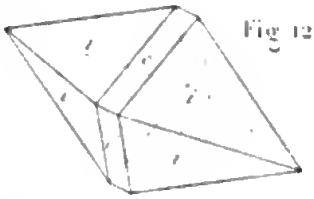
Fig 126.



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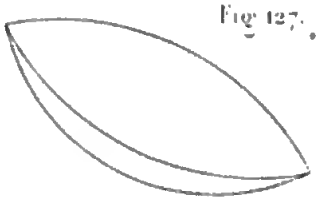

NAPOLI

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QUARTZ.

Fig 128

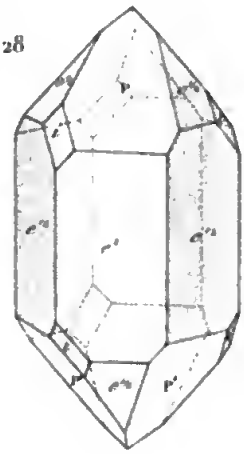


Fig 129

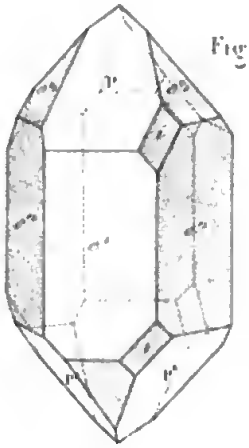


Fig 130

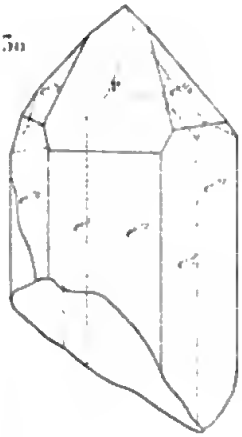


Fig 131

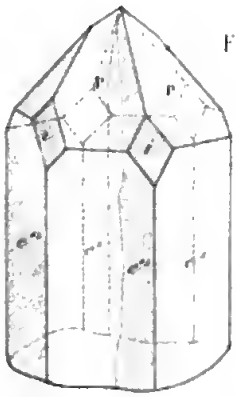


Fig 132.

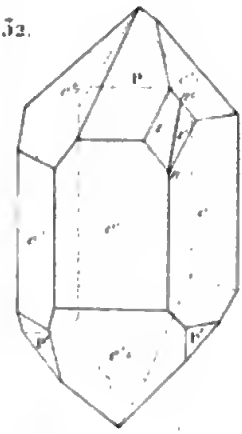
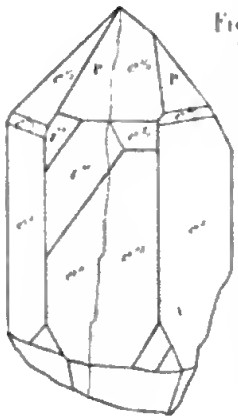


Fig 133



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CHAUX CARBONATÉE

Fig 154

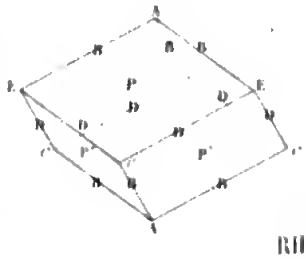
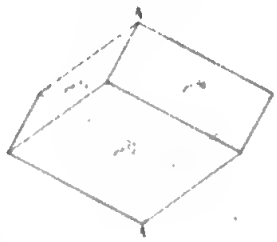


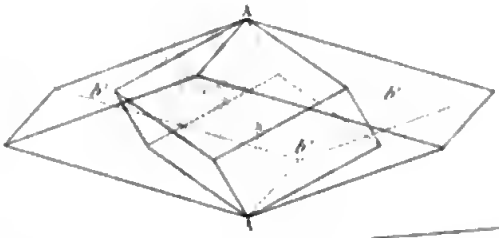
Fig 155



RHOMBOÈDRES.

1re FORME DOMINANTE

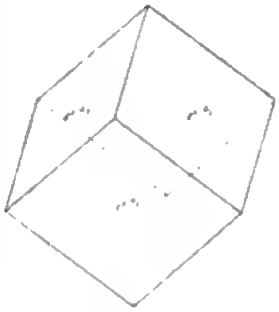
Fig 156



Equivalente Haüy

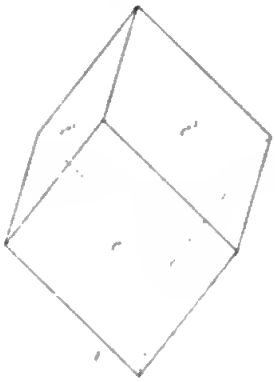
Fig 157

Fig 158.



Inverse Haüy

Fig 159



Inverse Haüy

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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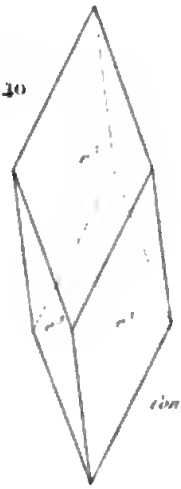
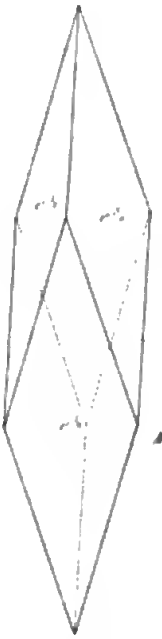
CHAUX CARBONATÉE

Fig. 140



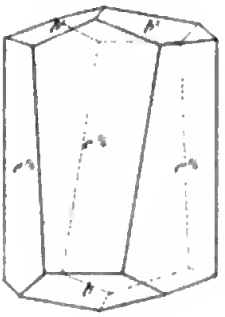
Contrastant Haüy

Fig 141



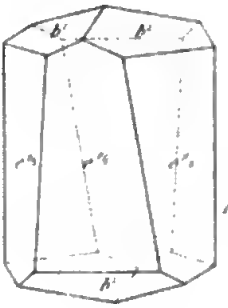
Mixte Haüy

Fig 142.



Contracte Haüy

Fig 143.



Dilate Haüy

Fig 144

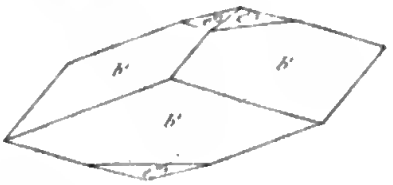
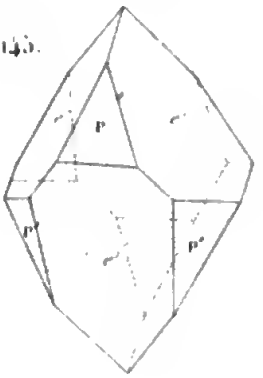


Fig 145.

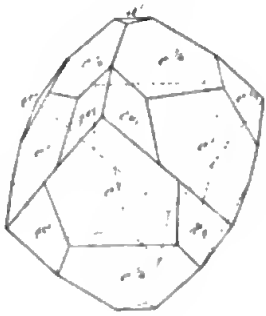


BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

CHAUX CARBONATÉE

Fig. 146.

Fig. 147.



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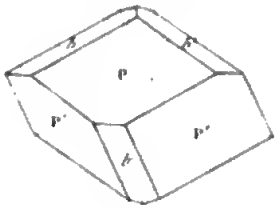

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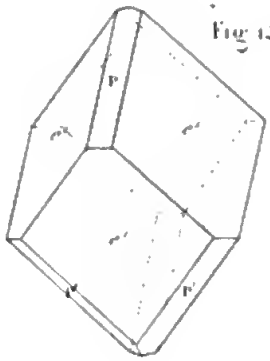


Fig. 150.

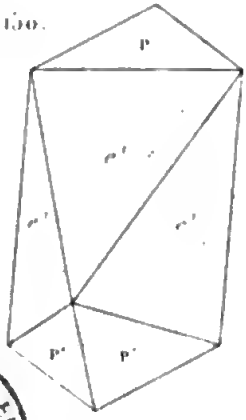
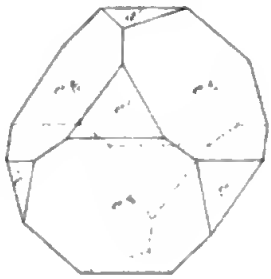


Fig. 151.



NAPOLI

CHAUX CARBONATÉE

Fig. 152

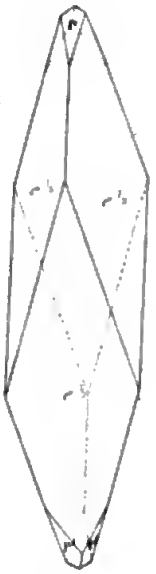
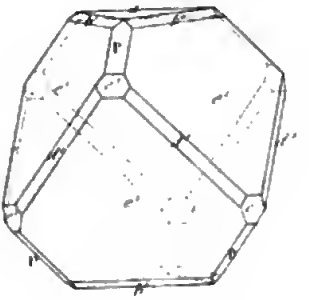


Fig. 153



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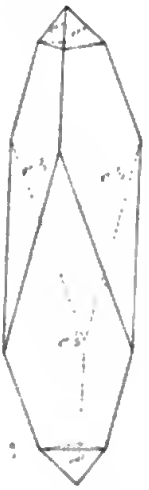

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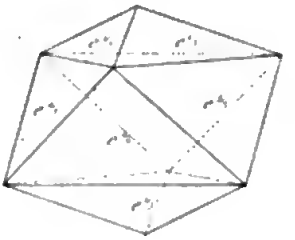

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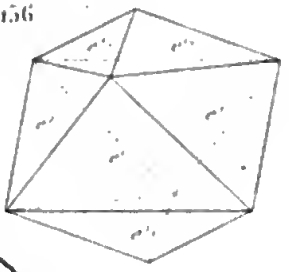

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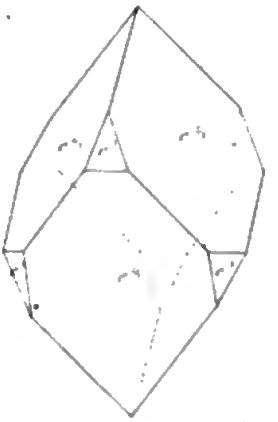

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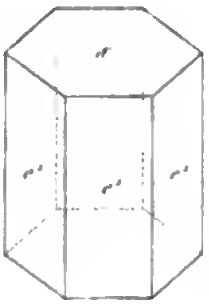
Fig 158



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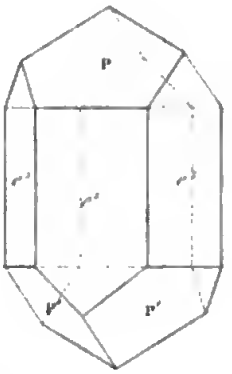
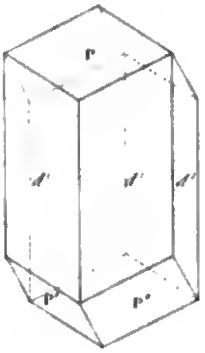


PRISMES À SIX FACES

2e FORME DOMINANTE

Fig 160



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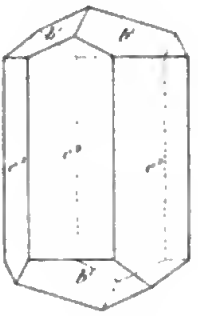

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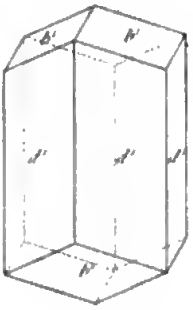

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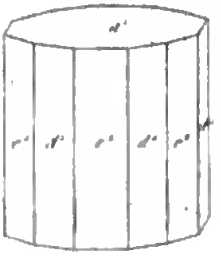

ACCADEMIA VITTORIO EMANUELE III NAPOLI

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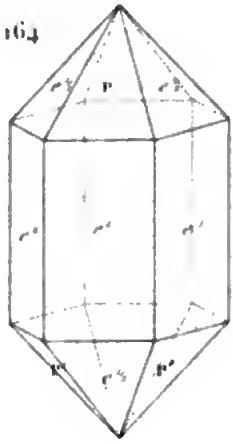
Fig 164



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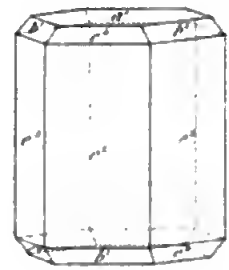

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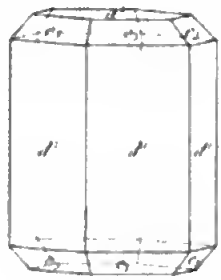

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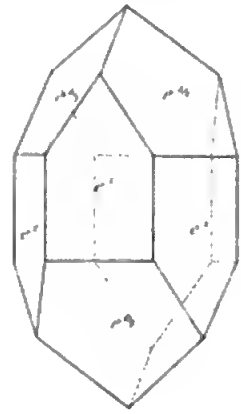

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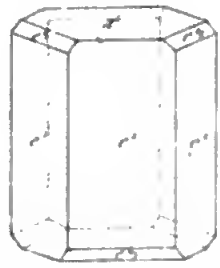

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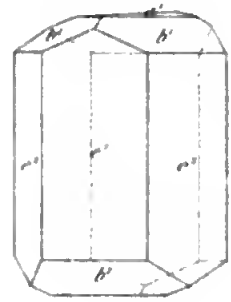

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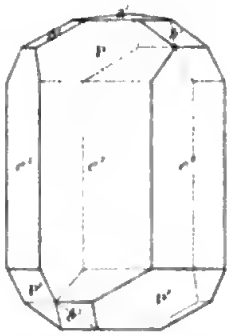
Fig. 170



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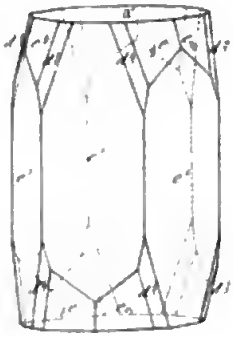

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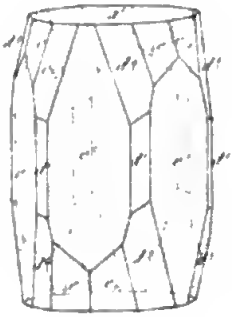

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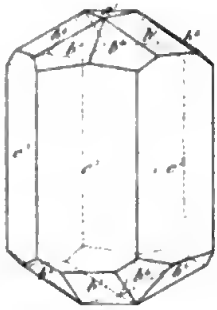

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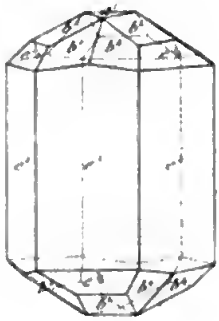

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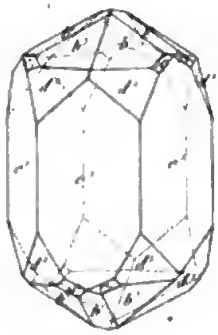

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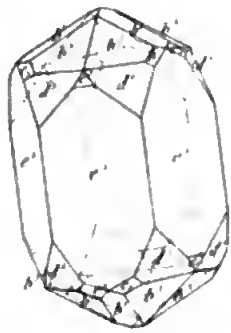
Fig 176



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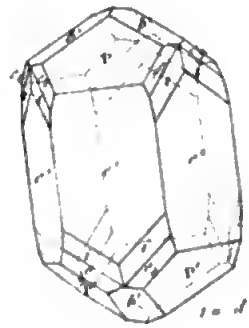

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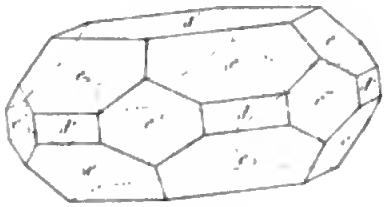

Fig 180

Fig 181

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2e FORME DOMINANTE

Fig 179

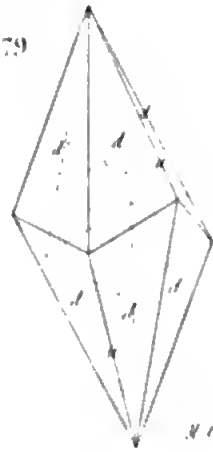

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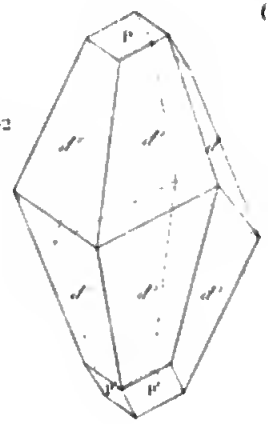
Fig. 182



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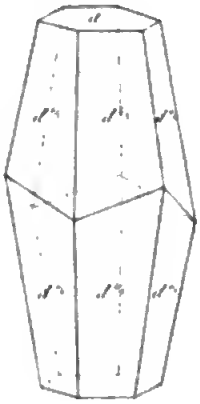

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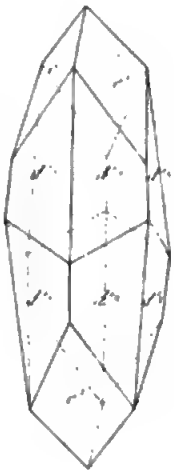

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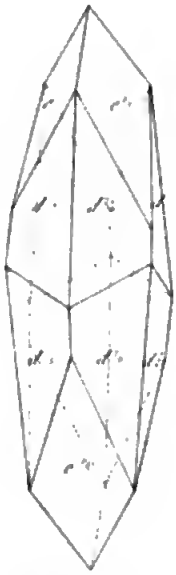

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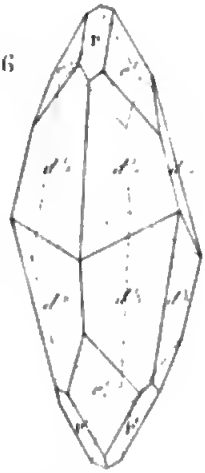

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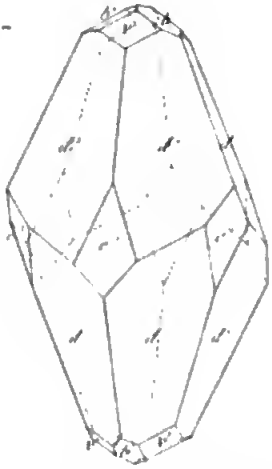

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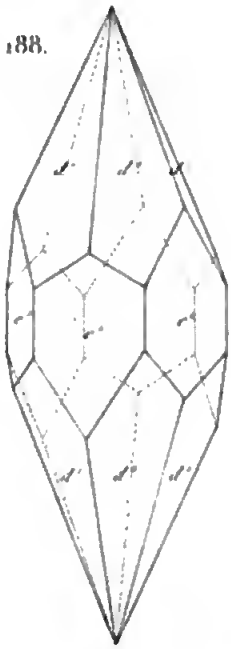
Fig. 188.



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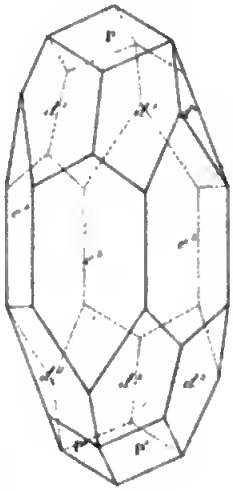

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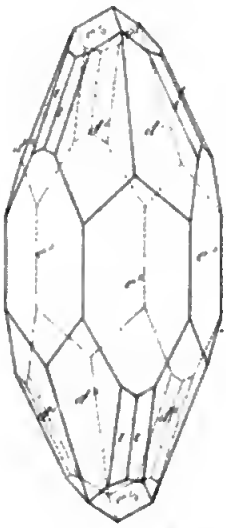

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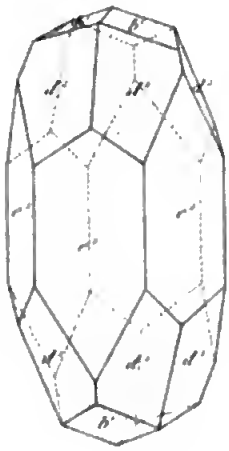

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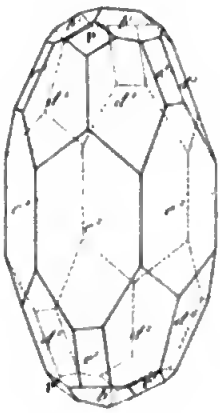

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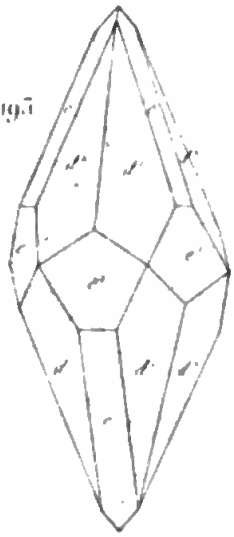
Fig. 193



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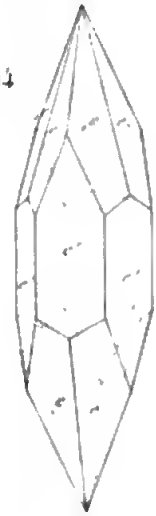
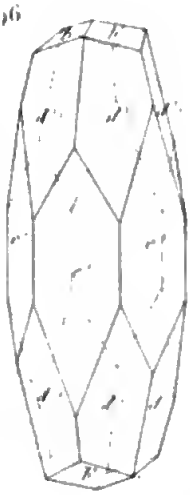


Fig. 195

Fig. 196



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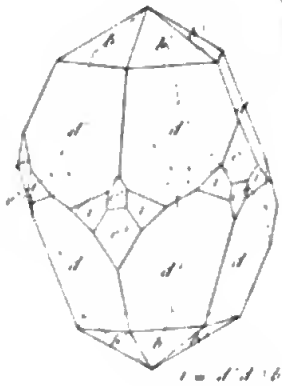

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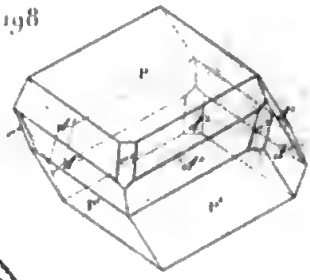

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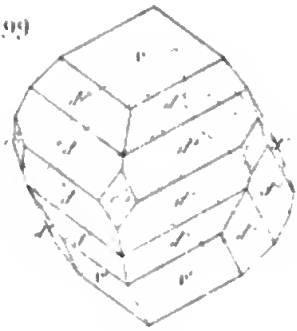

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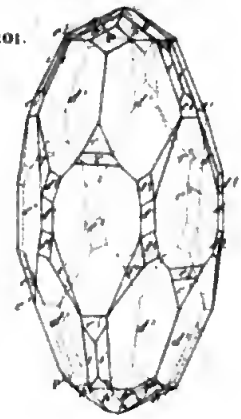
Fig. 201.



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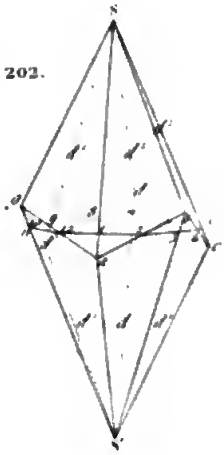

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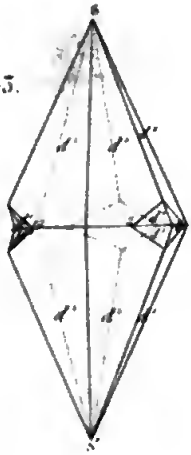

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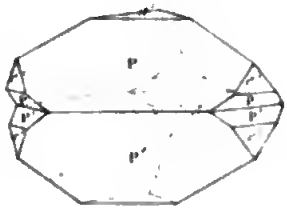

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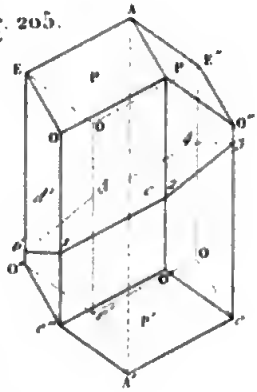

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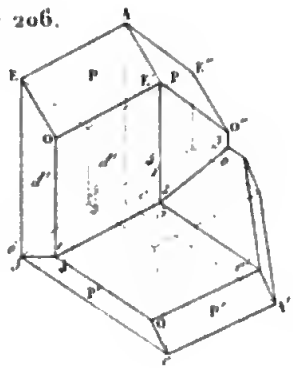

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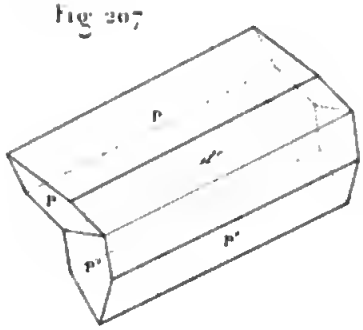
CHAUX CARBONATÉE.

Fig. 207



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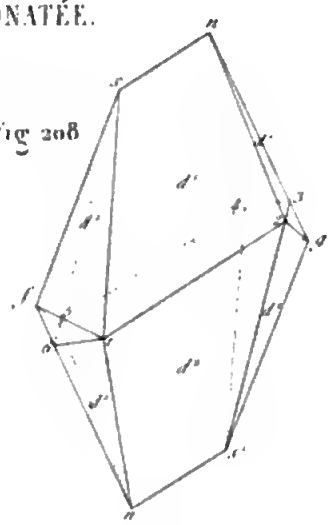


Fig. 209

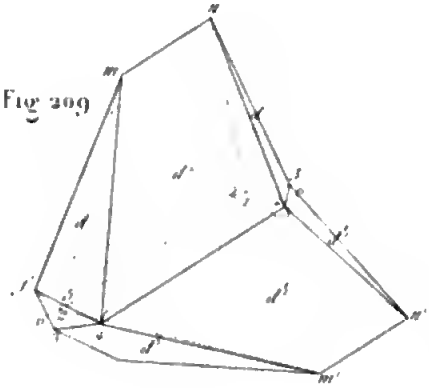


Fig. 210

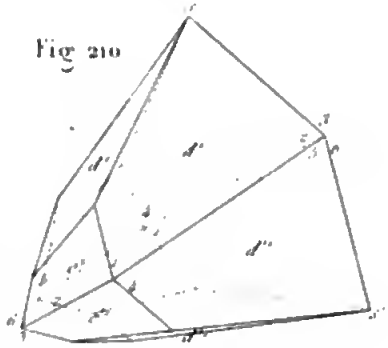
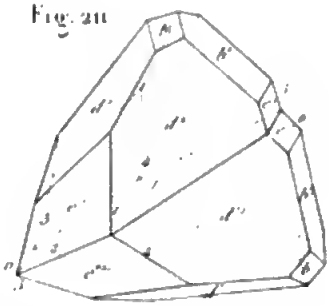


Fig. 211



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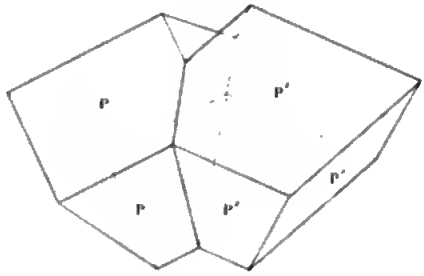

MUSEO NAZIONALE NAPOLI

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Fig 213

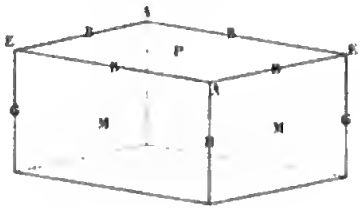
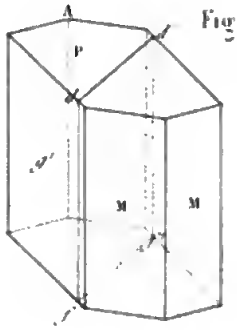


Fig 214



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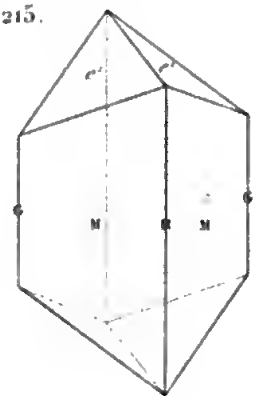

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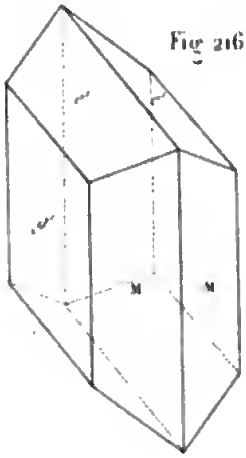

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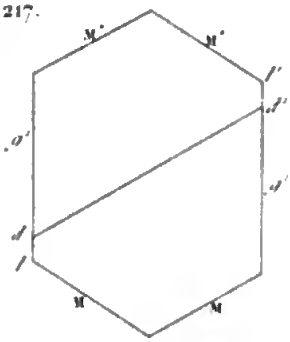

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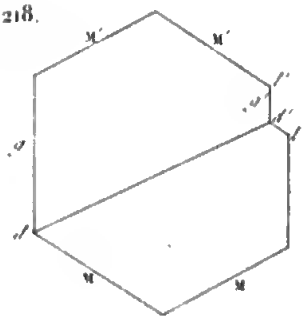

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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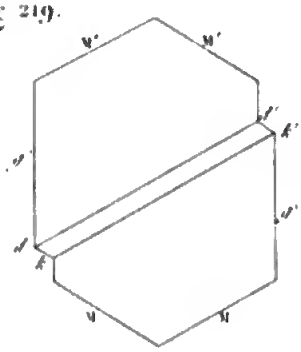
Fig. 219.



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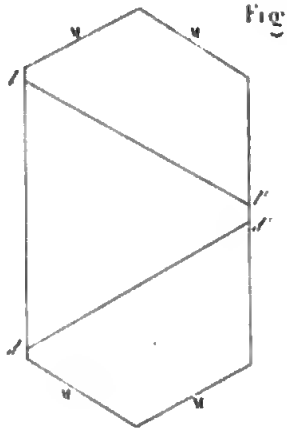

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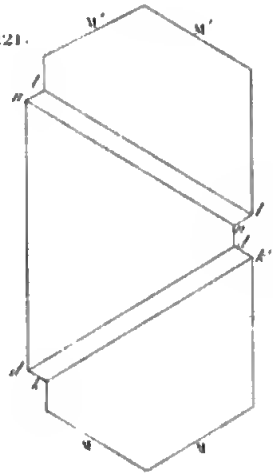

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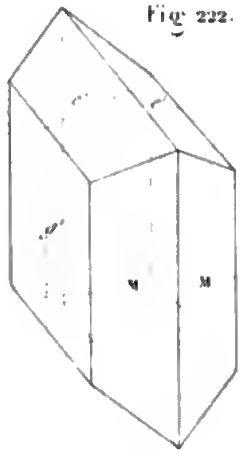

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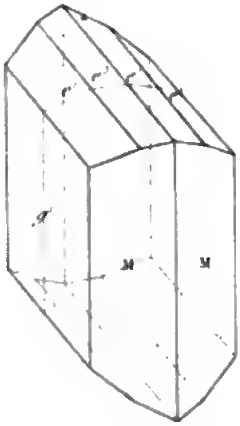

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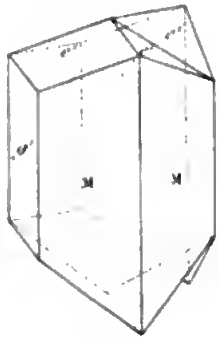

VITTORIO EMANUELE III
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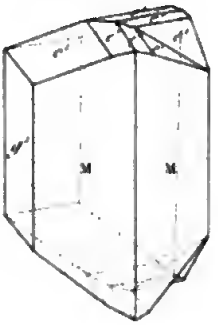

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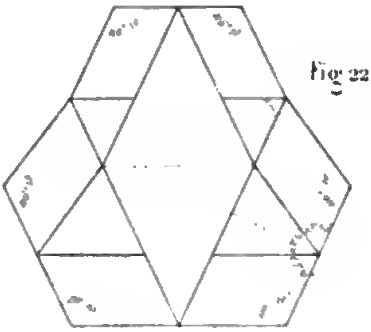
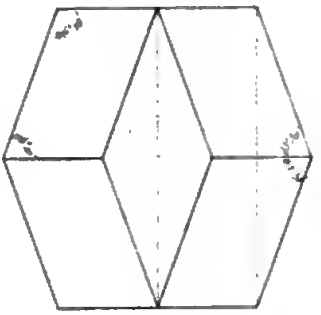


Fig. 226.

Fig. 227.



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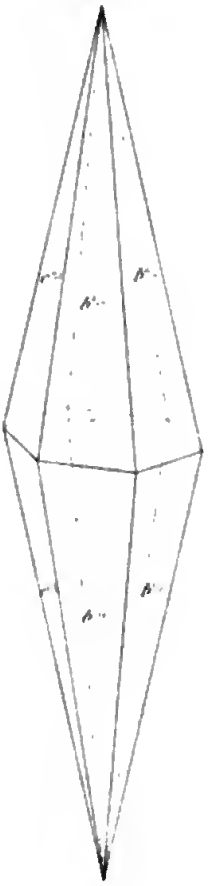

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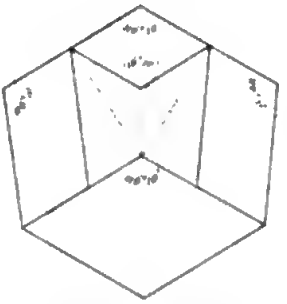

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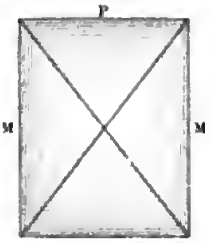

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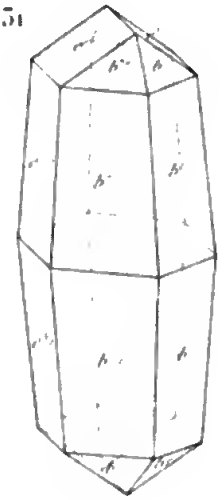
ARRAGONITE.

Fig. 251



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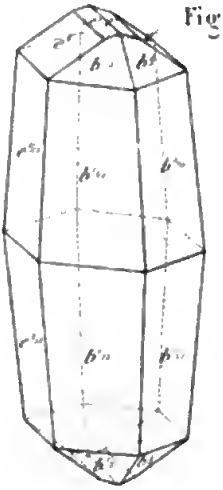


DOLOMIE.

Fig. 253

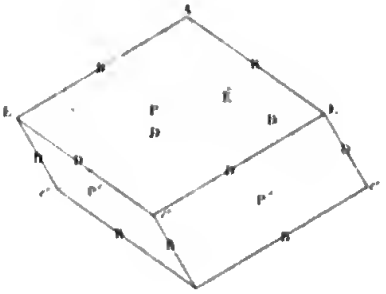


Fig. 254

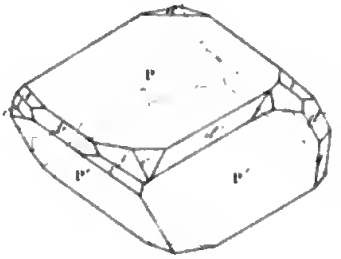


Fig. 255

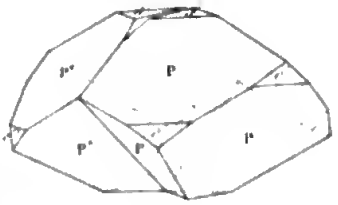
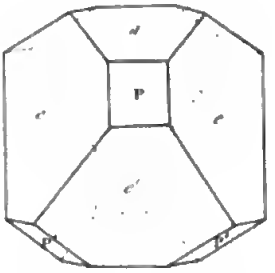


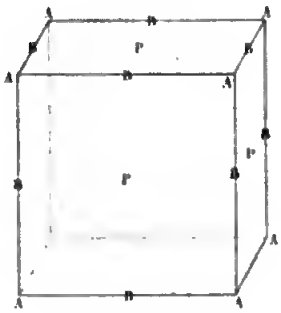
Fig. 256



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

CHAUX FLUATÉE.

Fig. 237.



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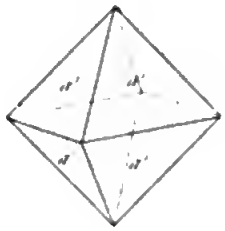
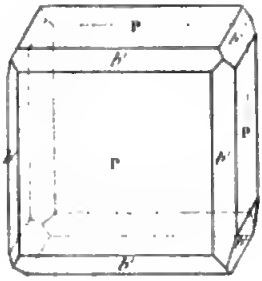


Fig. 239



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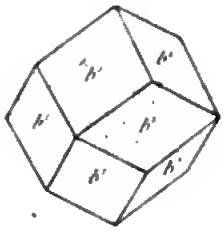

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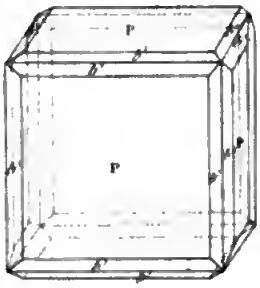

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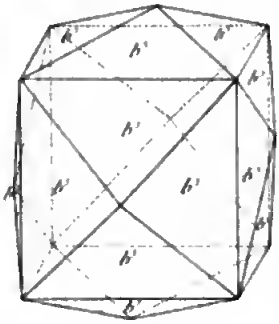

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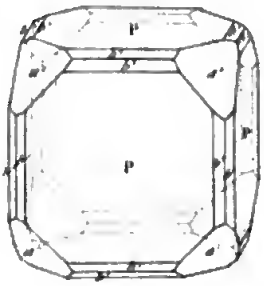
CHAUX FLUATÉE.

Fig. 243.



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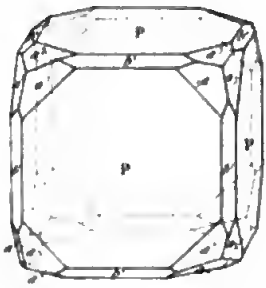

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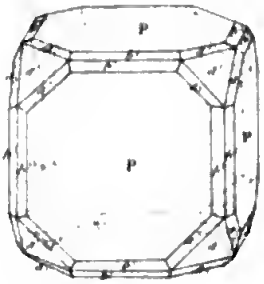

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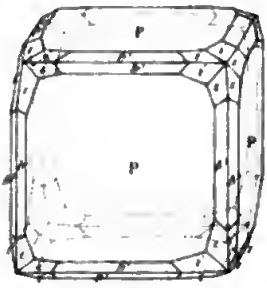

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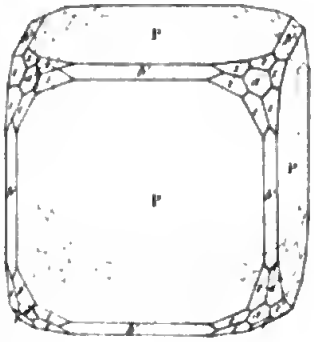

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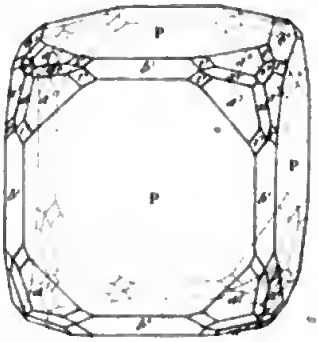

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CHAUX SULFATÉE.

Fig. 249.

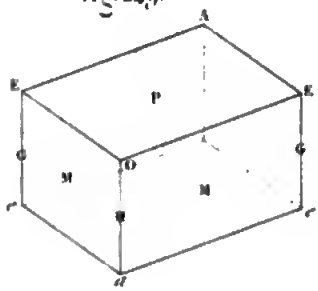
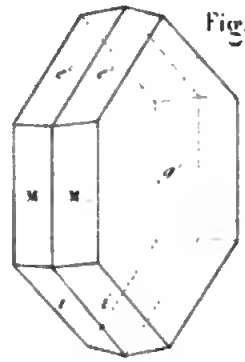


Fig. 250.



$i = (b^{\frac{1}{2}}\, b^{\frac{1}{2}}\, b^{\frac{1}{2}})$

Fig. 251.

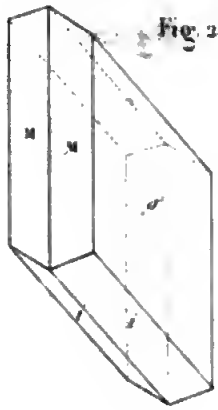
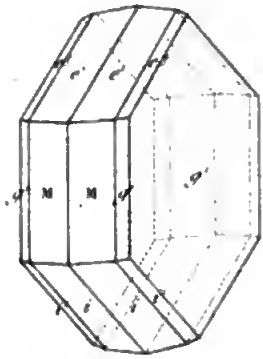
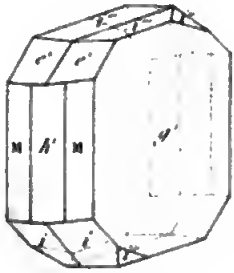


Fig. 252.



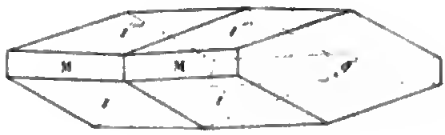
$i'' = (b^{\frac{1}{2}}\, d^{\frac{1}{2}}\, a^{\frac{1}{2}})$

Fig. 253.



$i'' = (b^{\frac{1}{2}}\, b^{\frac{1}{2}}\, a^{\frac{1}{2}})$

Fig. 254.



$i'' = (b^{\frac{1}{2}}\, b^{\frac{1}{2}}\, b^{\frac{1}{2}})$

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CHAUX SULFATÉE.

Fig. 255.

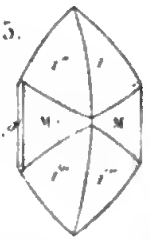


Fig. 256.

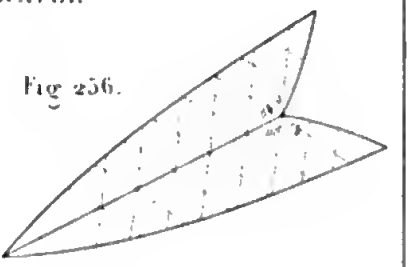
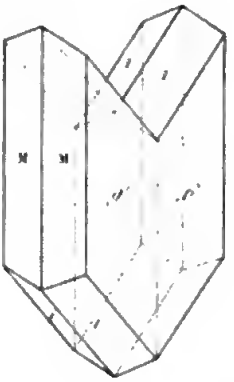


Fig. 257.



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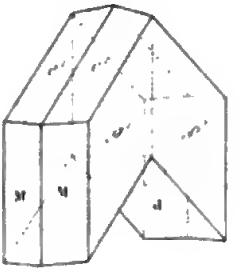


CHAUX ANHYDRO-SULFATÉE.

Fig. 259

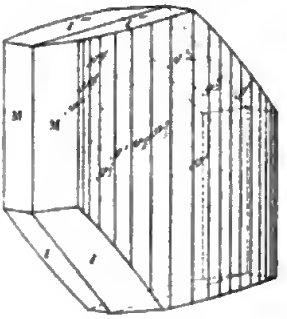


Fig. 260.

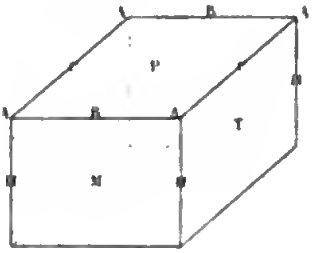
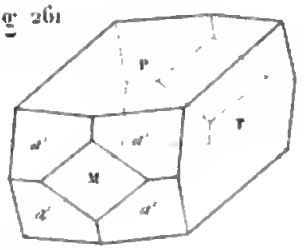


Fig. 261



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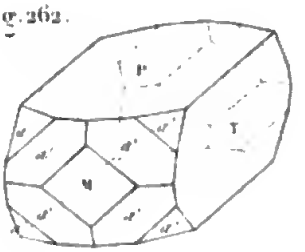
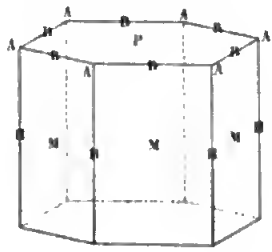


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

CHAUX PHOSPHATÉE.

Fig. 263.



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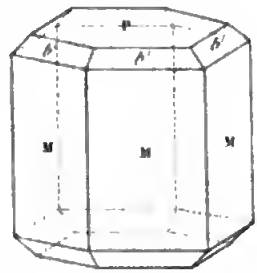
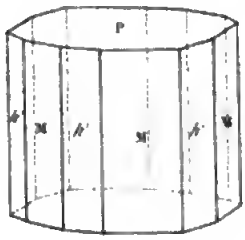


Fig. 265



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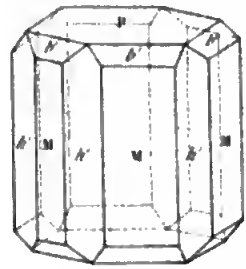

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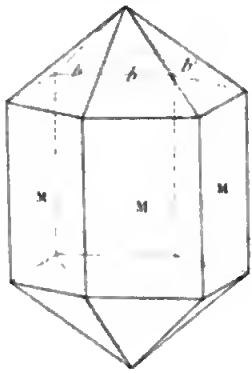
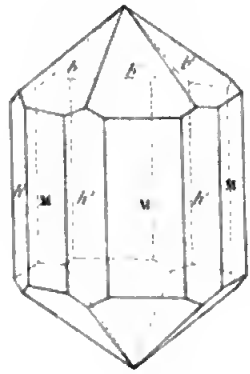


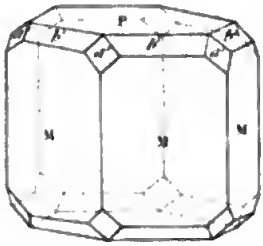
Fig. 268



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

CHAUX PHOSPHATÉE

Fig. 269



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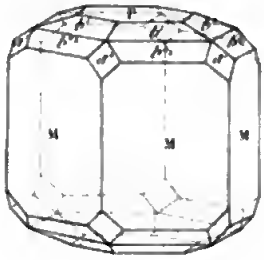

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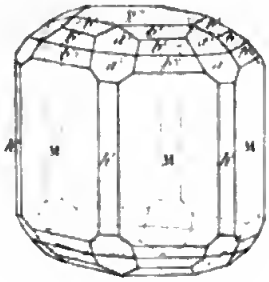

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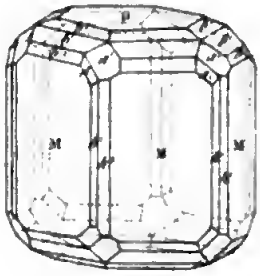

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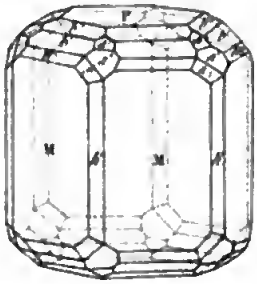

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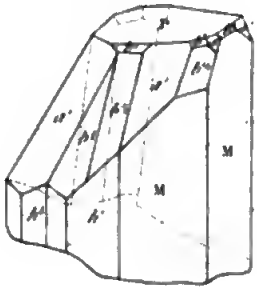
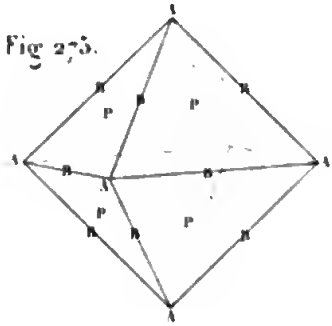


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

PYROCHLORE.

Fig. 275.



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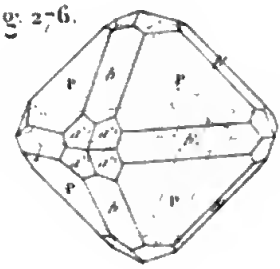
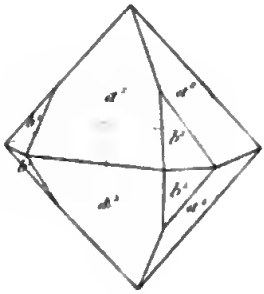


SCHÉELIN CALCAIRE.

Fig. 279



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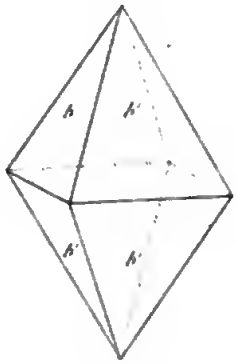
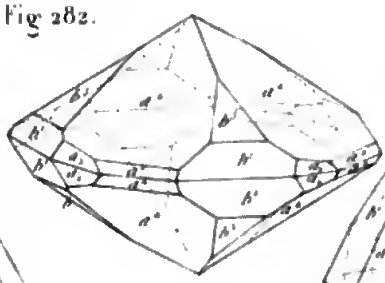


Fig. 277.

Fig. 282.



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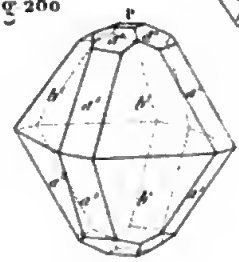

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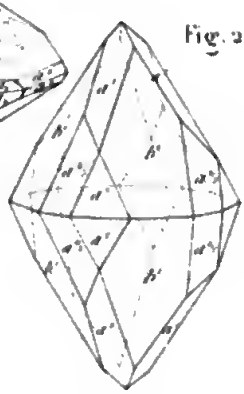

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

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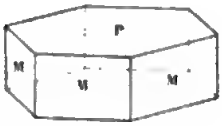
MAGNÉSIE HYDRATÉE

Fig 283.



MAGNÉSIE CARBONATÉE

Fig 284

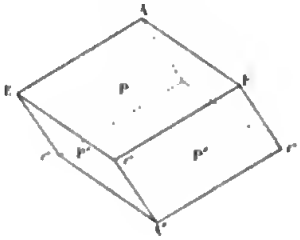
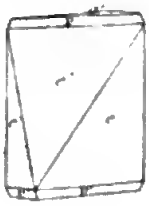
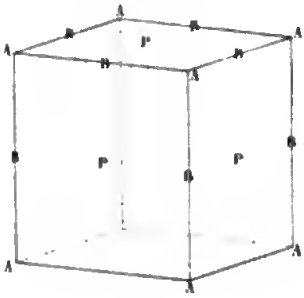


Fig 285.



MAGNÉSIE BORATÉE

Fig 286.



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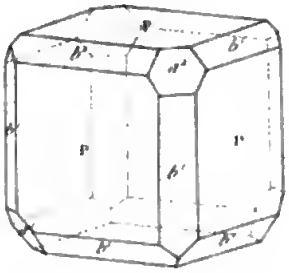

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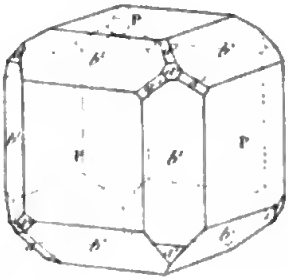
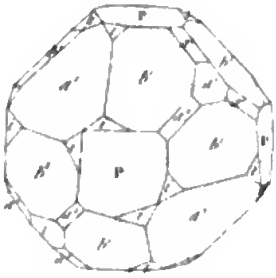


Fig 289.



NAPOLI

MAGNÉSIE PHOSPHATÉE

(WAGNERITE)

Fig. 290.

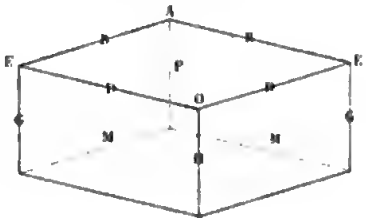
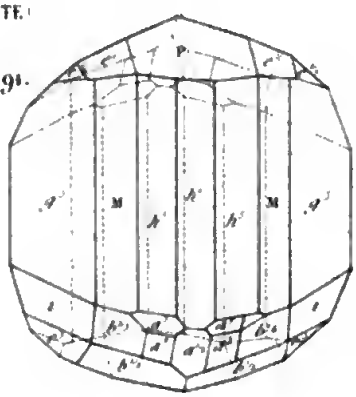


Fig. 291.



FERGUSONITE.

Fig. 292.

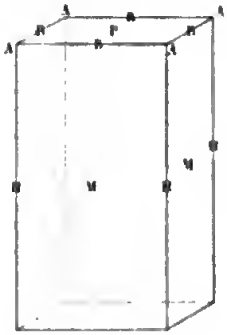
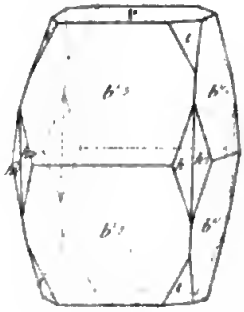


Fig 293.



GADOLINITE.

Fig 294

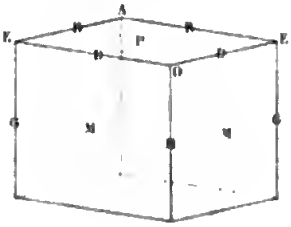
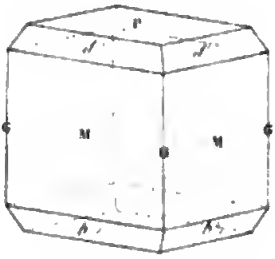


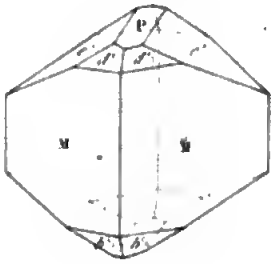
Fig. 295



NAPOLI

GADOLINITE

Fig. 296.



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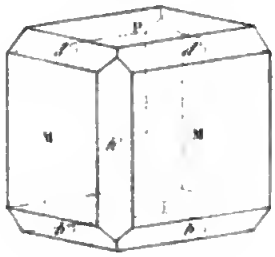


CORINDON

Fig. 298

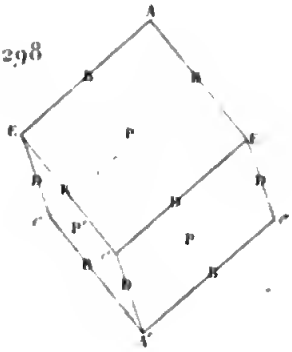
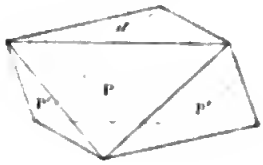


Fig. 299



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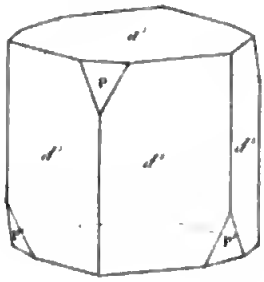

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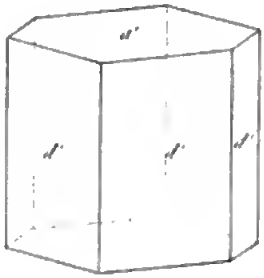


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

CORINDON

Fig. 302

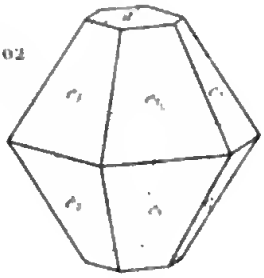


Fig. 303.

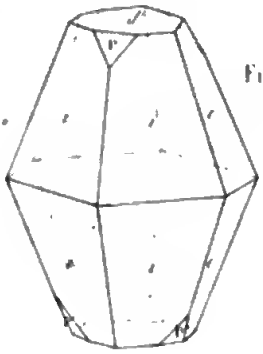


Fig. 304

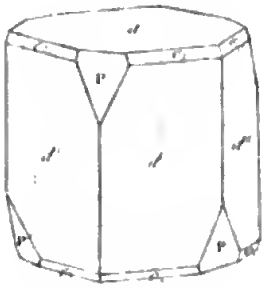
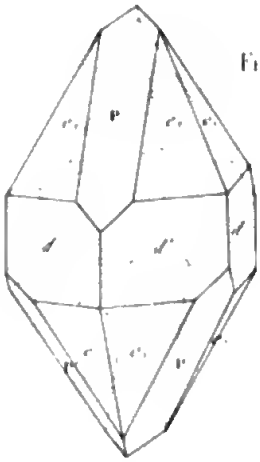


Fig. 305



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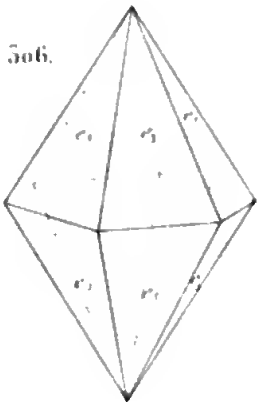
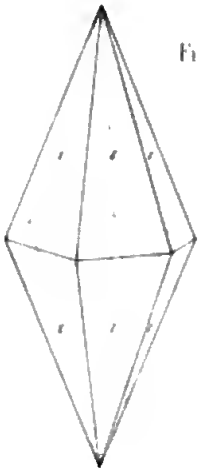


Fig. 307.



NAPOLI

CORINDON

Fig. 308

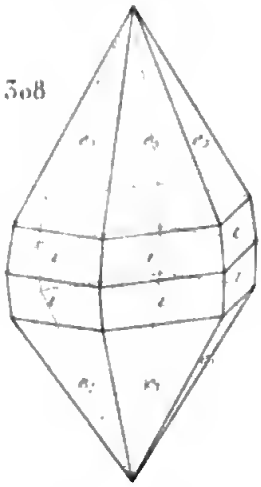


Fig. 309

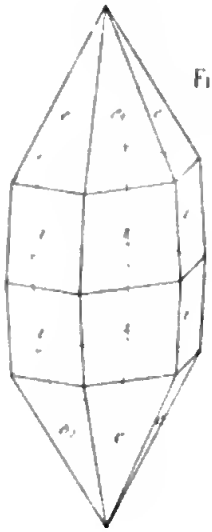


Fig. 310

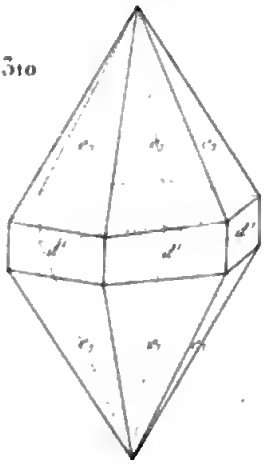


Fig. 311

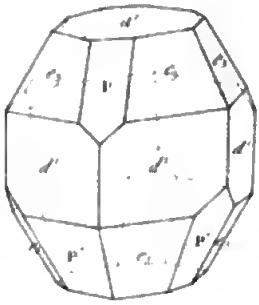


Fig. 312

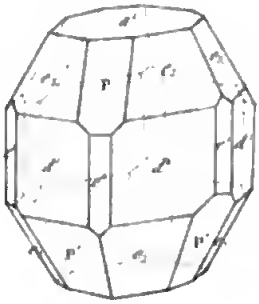
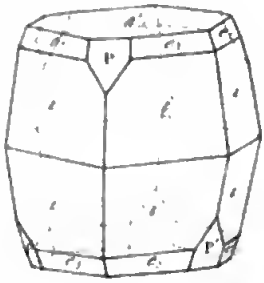


Fig. 313



NAPOLI

HYDRARGILLITE

Fig 314

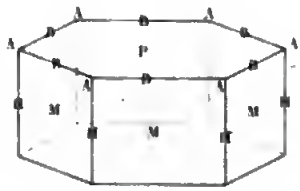
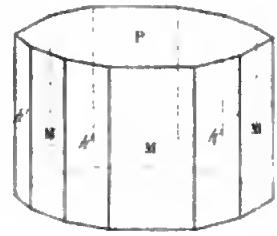
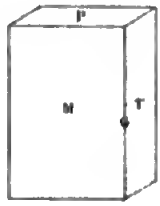


Fig 315



DIASPORE.

Fig 316.



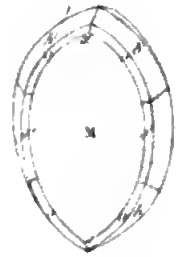
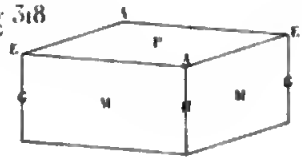


Fig 317.

WAVÉLLITE

Fig 318



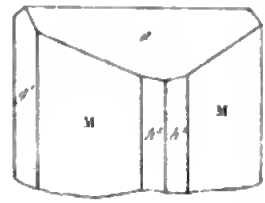
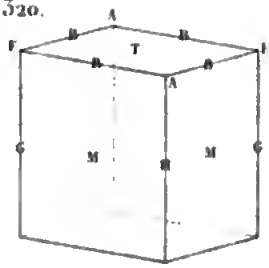


Fig 319

KLAPROTHINE

Fig 320.



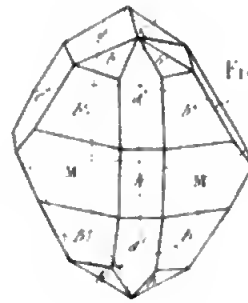
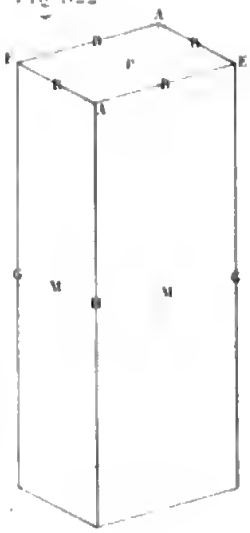


Fig 321

OLI
ATTORIO EMANUELE II

FLUÉLITE.

Fig. 522



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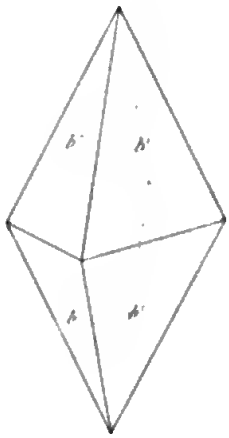


ALUNITE.

Fig. 524

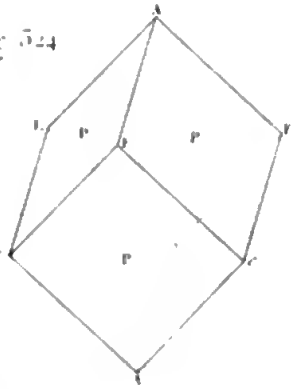
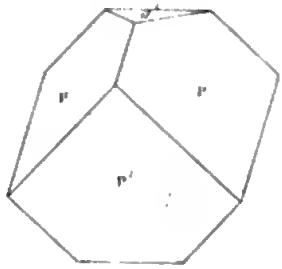


Fig. 525



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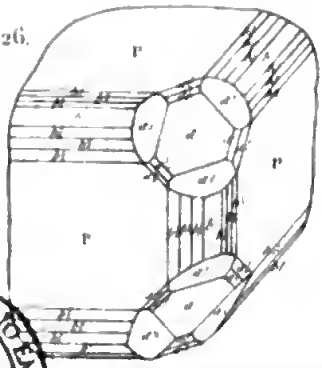

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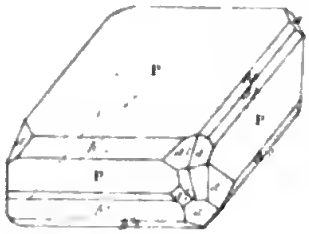

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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CÉRIUM PHOSPHATÉ

Fig 1

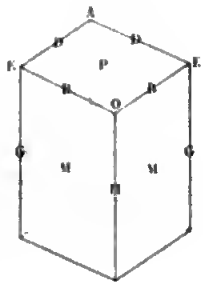


Fig 2

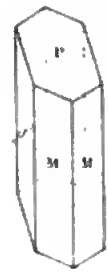
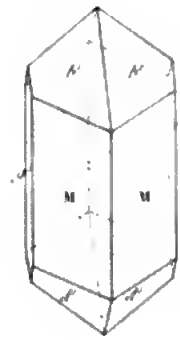


Fig 3



MONAZITE

Fig 4

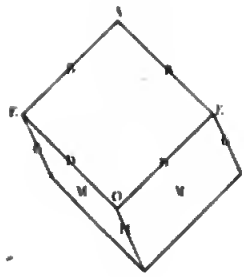
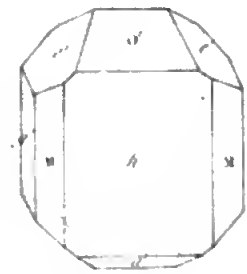


Fig 5.



ALLANITE

Fig 6

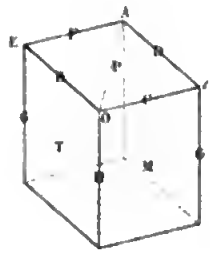
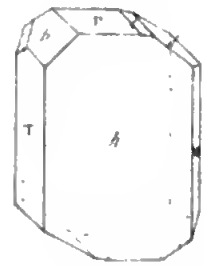


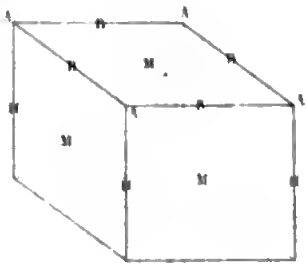
Fig 7



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

BRAUNITE

Fig. 8



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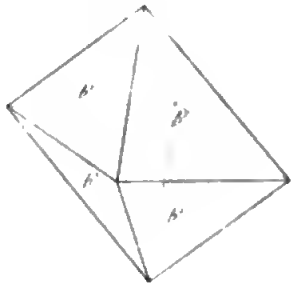
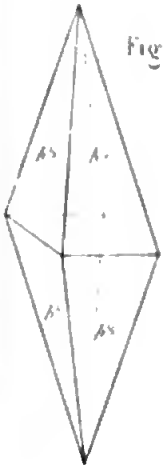


Fig. 10



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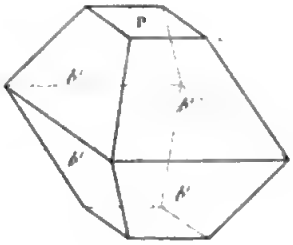

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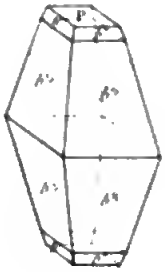

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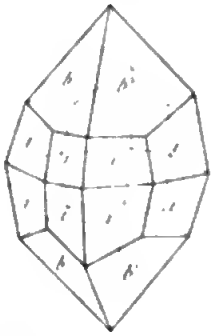

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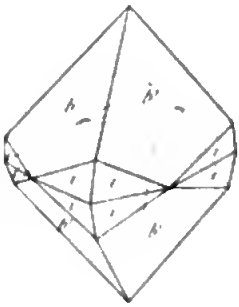
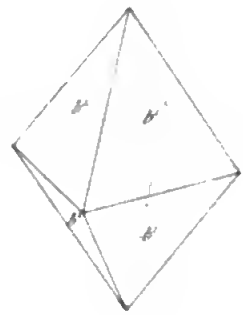


VITTORIO EMANUELE III · NAPOLI

HAUSMANITE.

Fig. 15.

Fig. 16.



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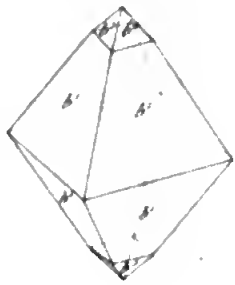

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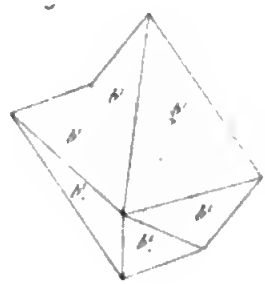
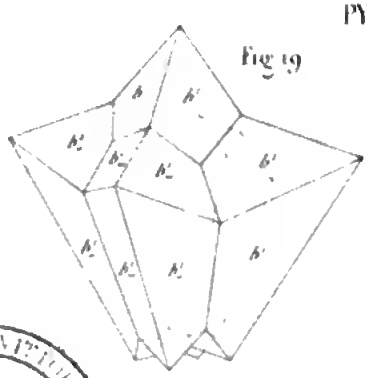


PYROLUSITE.

Fig. 19.



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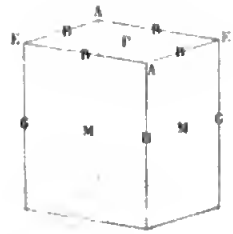
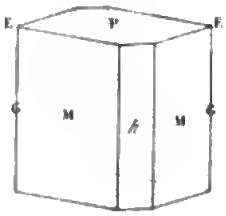


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

PYROLUSITE.

Fig. 21



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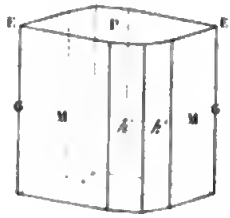

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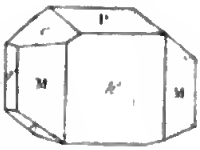
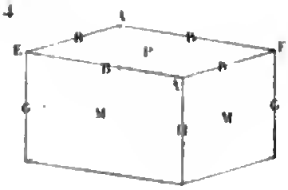


ACERDÈSE.

Fig. 24



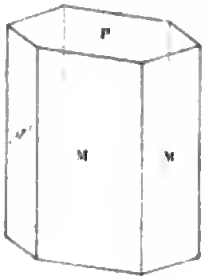
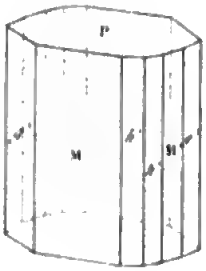


Fig. 25

Fig. 26



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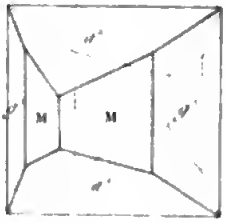

VITTORIO EMANUELE II
NAPOLI

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PYROLUSITE

Fig 28

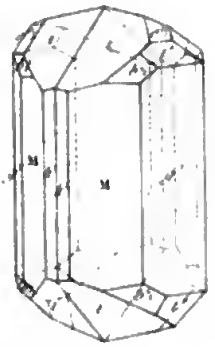
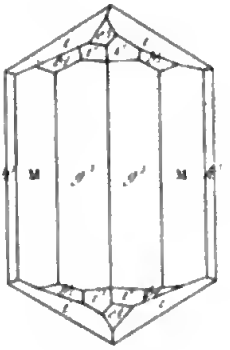
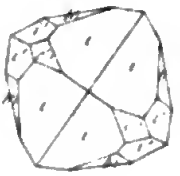


Fig 29



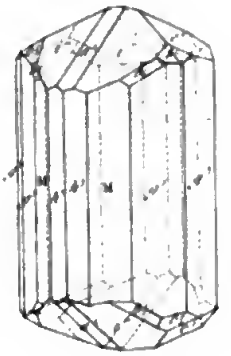
$i = b\,b\,h$
$i' = b\,b\,g$

Fig 30



$i = b\,b_1\,h$

Fig 31



$i' = b\,b\,h$

Fig 32

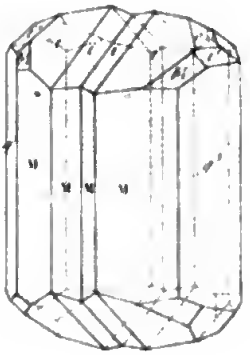
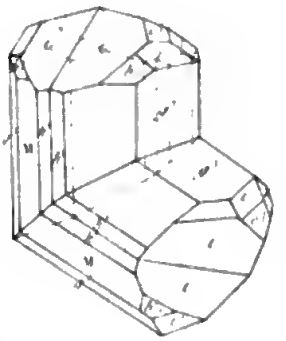


Fig 33.



$i' = b\,b_1\,g_1$

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

HUREAULITE

Fig 34.

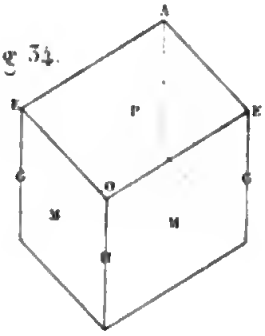
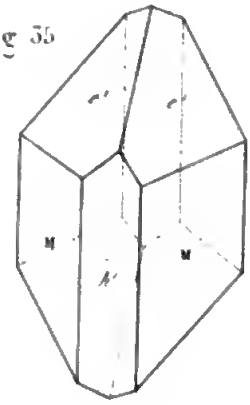


Fig 35



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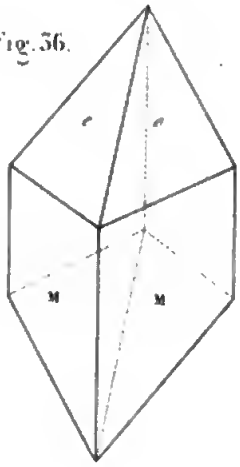
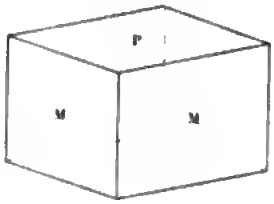


HÉTÉROZITE.

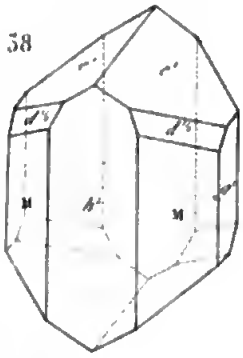
Fig 37.



MÉTÉORITES

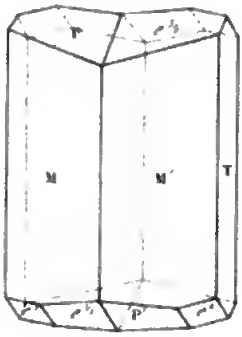
PYROXÈNE

Fig 38



ALBITE

Fig 39



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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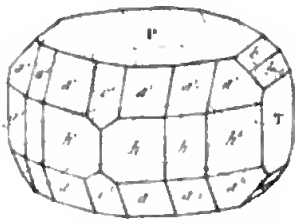
Fig 40



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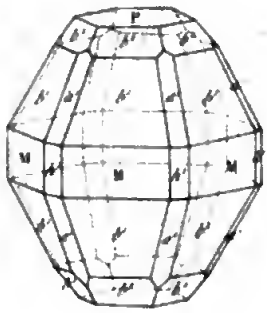

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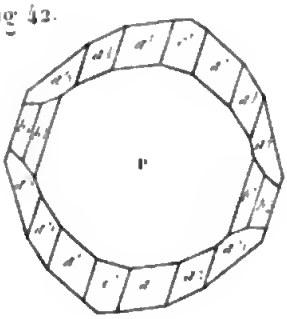
Fig 42.



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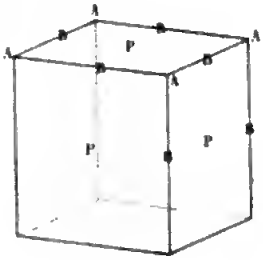

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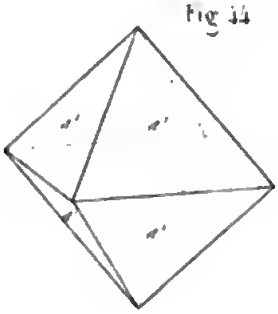

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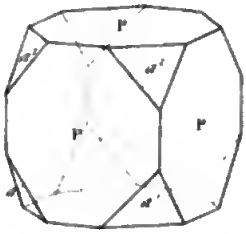

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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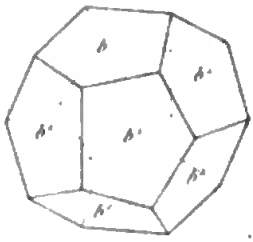
Fig 46



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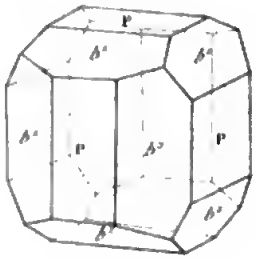

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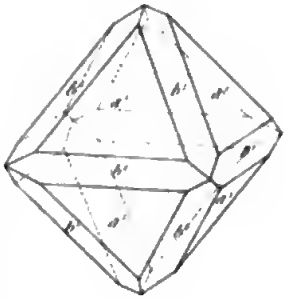

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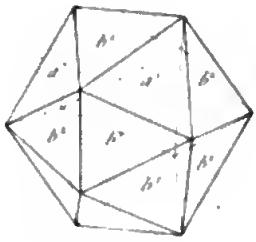

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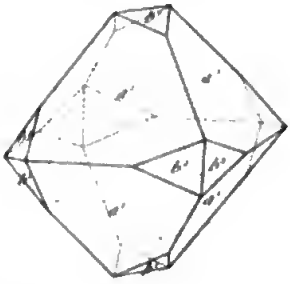
Fig 50



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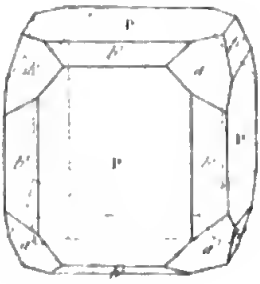

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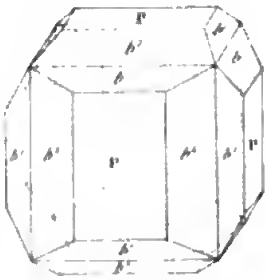
Fig. 52.



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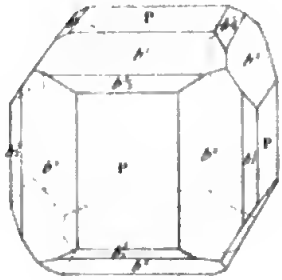

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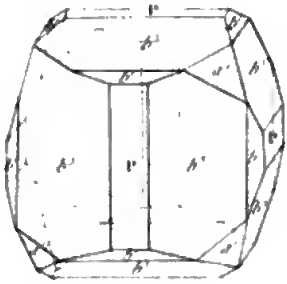

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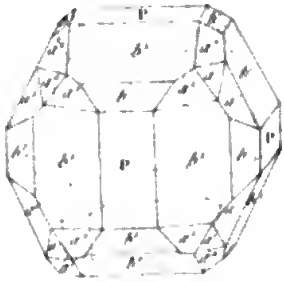

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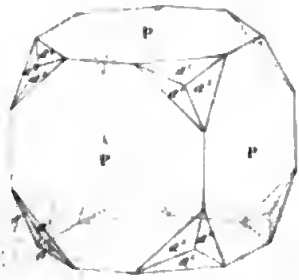

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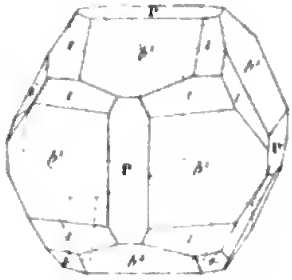

$i = (b^1 b^2 b^3)$

Lemaître del. & c.

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Fig 58

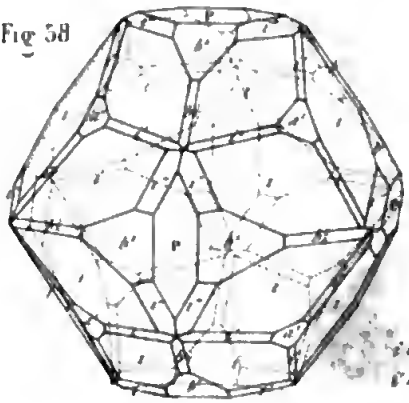
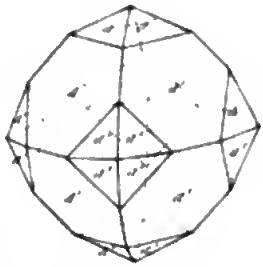


Fig 59



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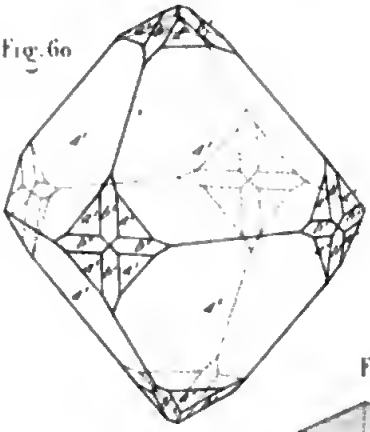

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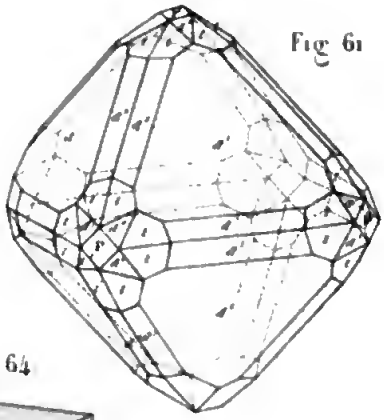

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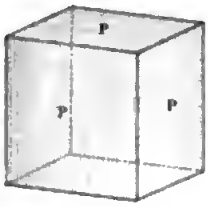

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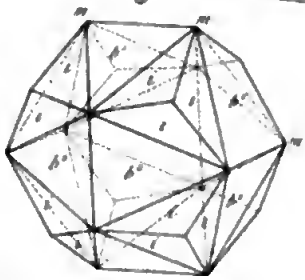

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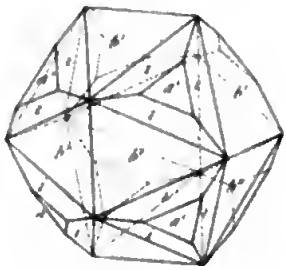

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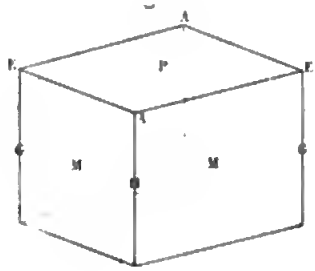
Fig. 65



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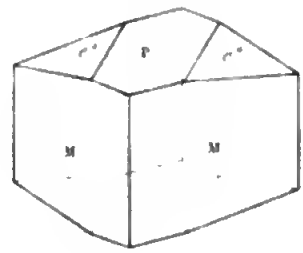

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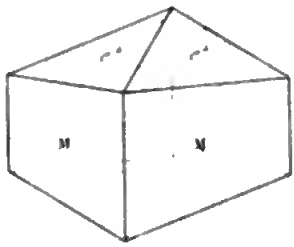

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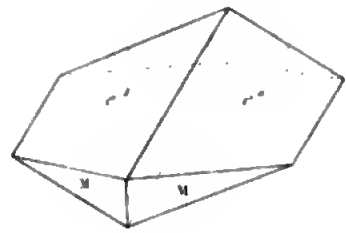

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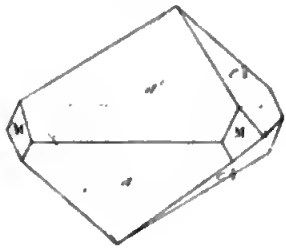

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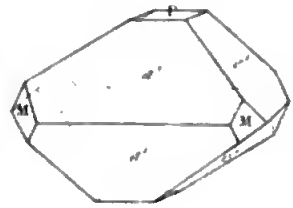

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Fig 71

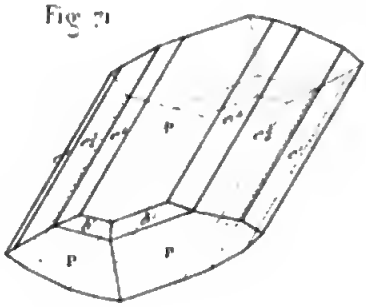
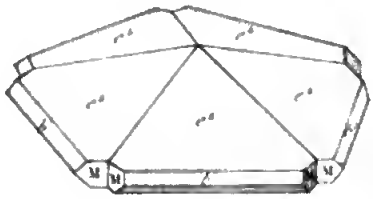


Fig 72



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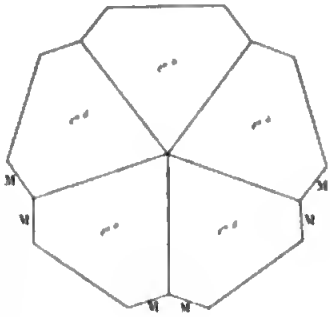

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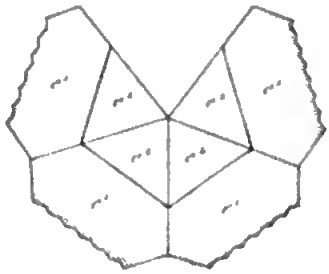

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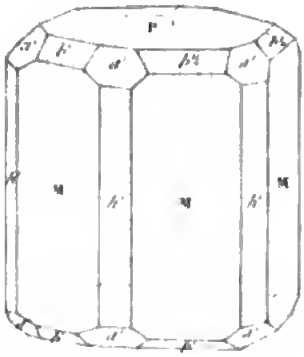

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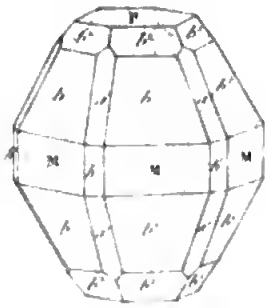

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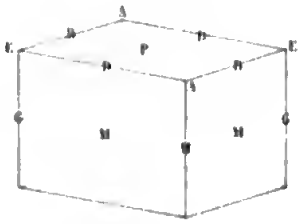
Fig 77.



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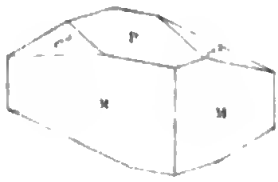
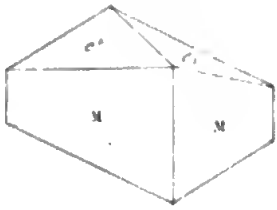


Fig 79



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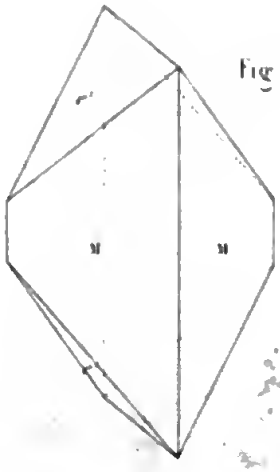

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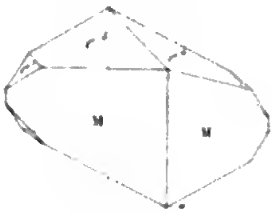

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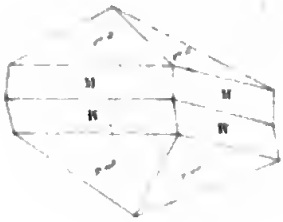

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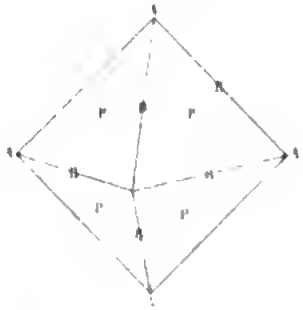
Fig. 83



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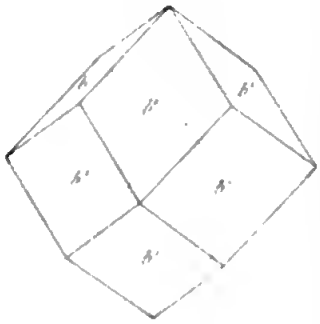

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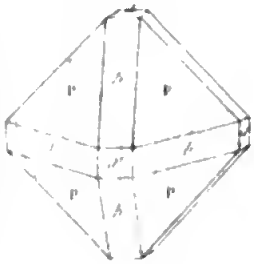

Fig. 86

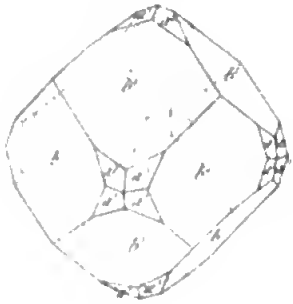

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Fig. 87.

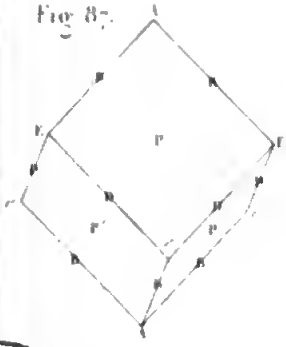

Fig. 88

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Fig. 89

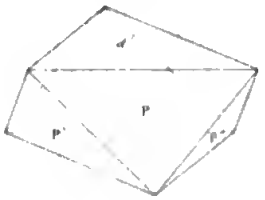


Fig. 90

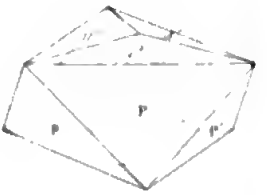
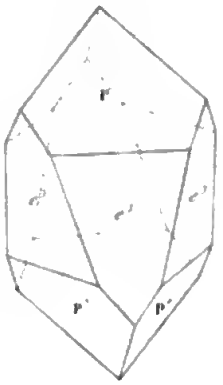


Fig. 91



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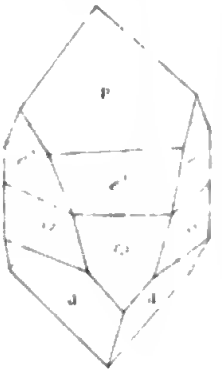

Fig. 93

Fig. 94

Fig. 95

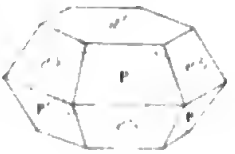

Fig. 96.

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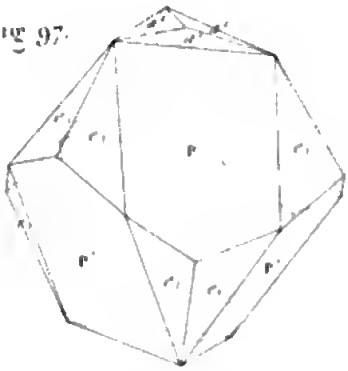
Fig. 97.



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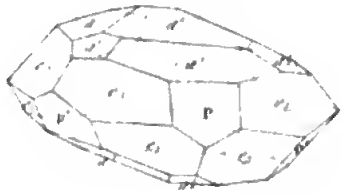

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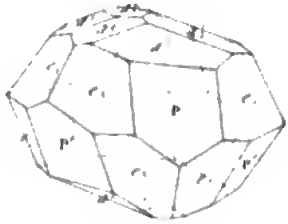

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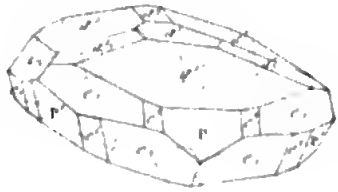

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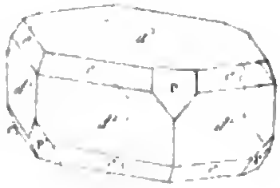

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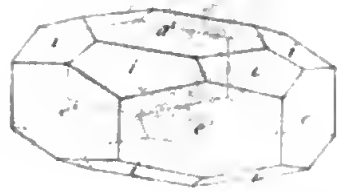

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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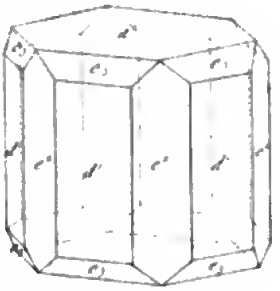

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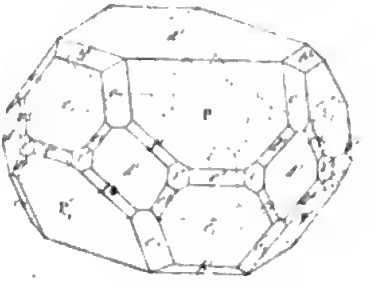

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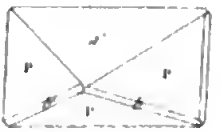
Fig. 105.

Fig. 106.



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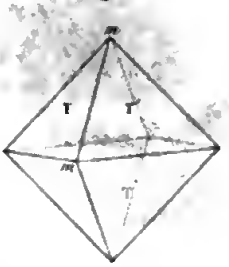

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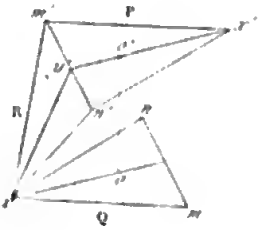

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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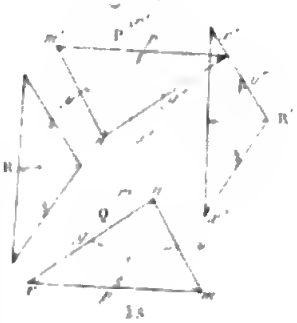
Fig. 109



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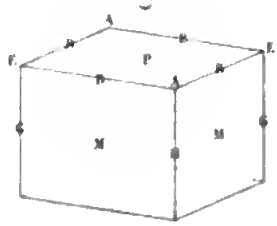
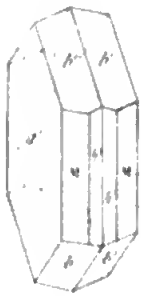


Fig. 111.

Fig. 112.

Fig. 113



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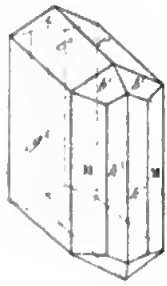

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FER CARBONATÉ

Fig. 115

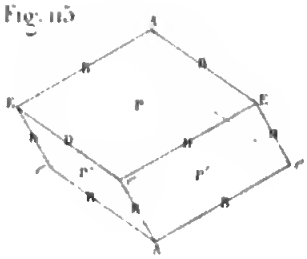


Fig. 116

Fig. 117.

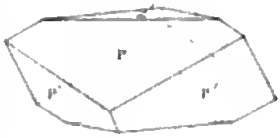
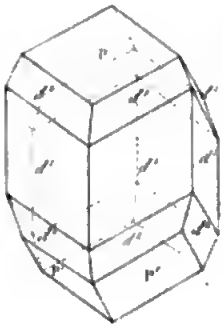


Fig. 118.

Fig. 119

Fig. 120.



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FER OLIGISTE

Fig 121.

Fig 122.

CHRICTONITE

Fig 123.

Fig 124

Fig 125.

Fig 126.

MOHSITE

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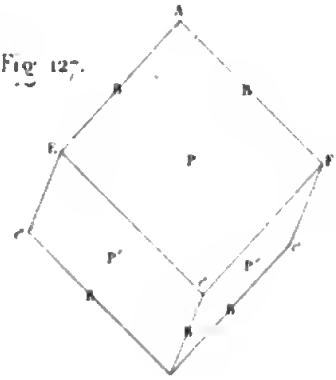
ILMENITE

Fig. 127.



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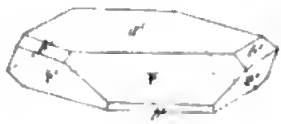
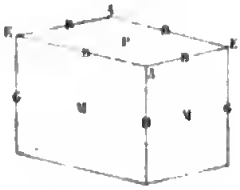


MENGITE

Fig. 129



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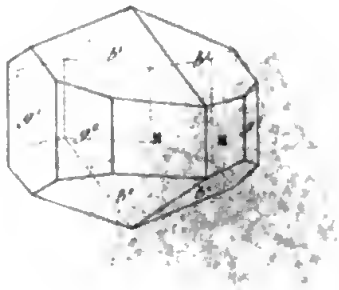

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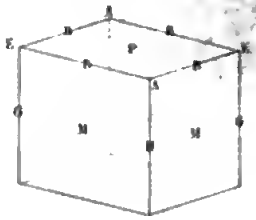
Fig. 131



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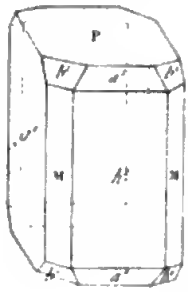

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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BAIERINE.

Fig. 133.

Fig. 134.

TANTALITE

Fig. 135.

SCHÉELIN FERRUGINÉ

Fig. 136.

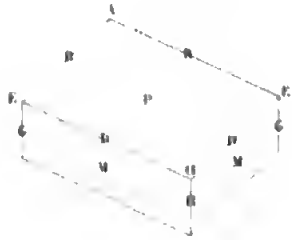

Fig. 137

Fig. 138

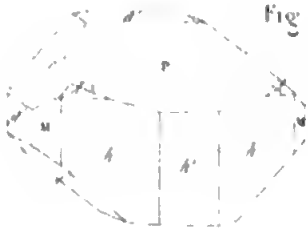

Fig. 139

Fig. 140

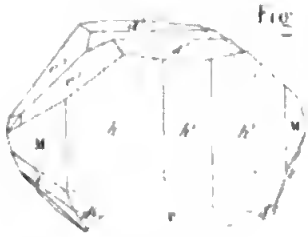

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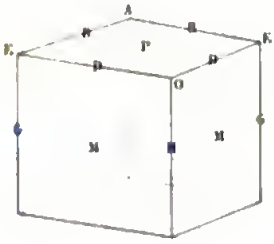
Fig. 141.



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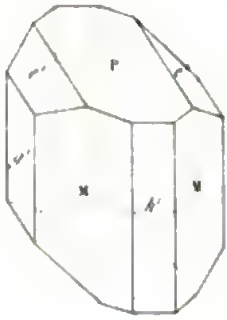

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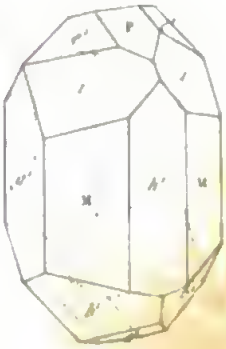

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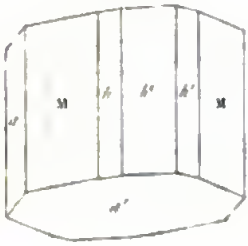

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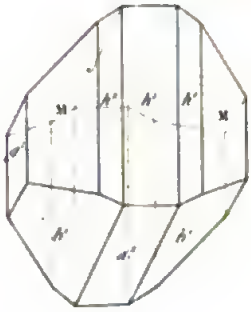

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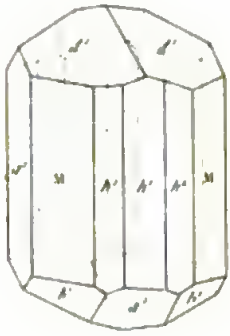
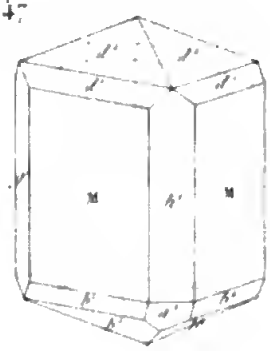


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

FER PHOSPHATÉ

Fig. 147



FER ARSENIATÉ

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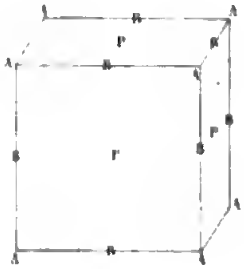
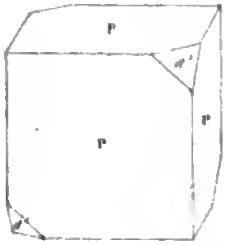


Fig 149



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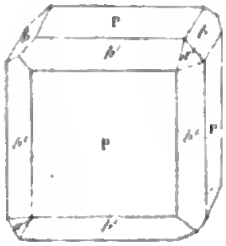
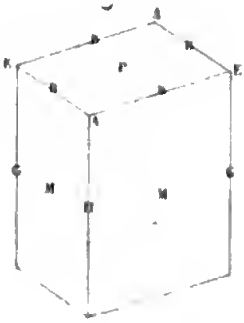


SCORODITE

Fig. 151



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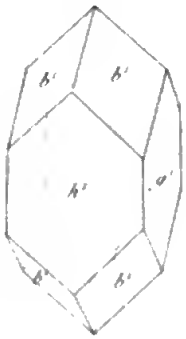

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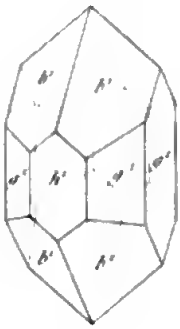
SCORODITE

Fig. 153.



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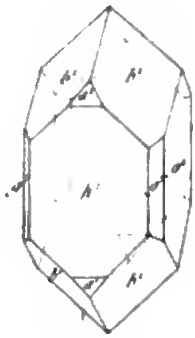

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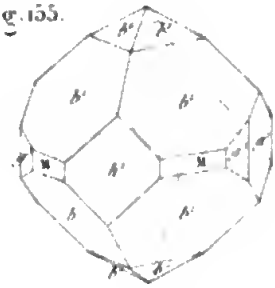
Fig. 155.



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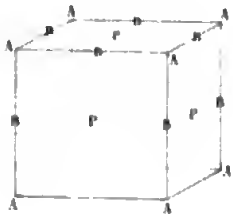

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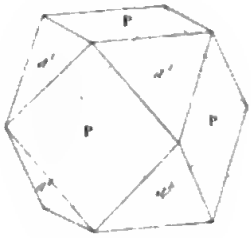

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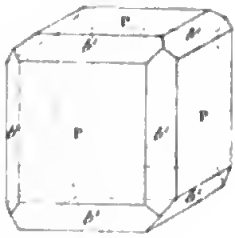

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COBALT ARSENICAL

Fig. 159

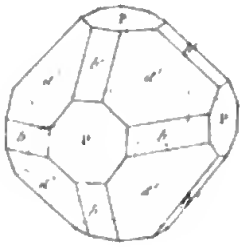
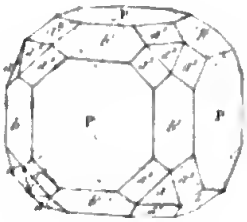
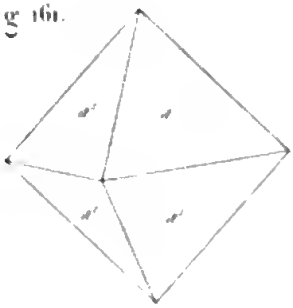


Fig. 160



COBALT GRIS

Fig. 161.



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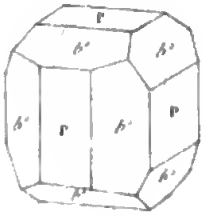


Fig. 163

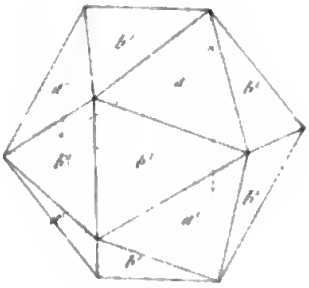
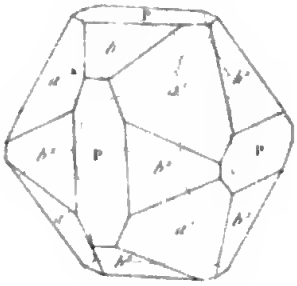


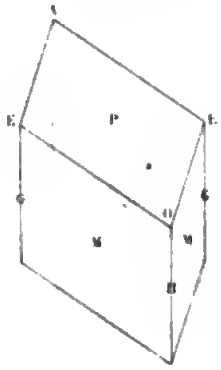
Fig. 164



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

COBALT ARSENIATÉ

Fig. 165.



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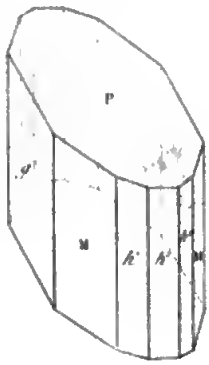
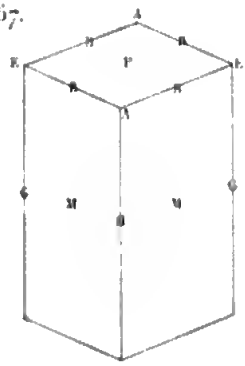


ROSÉLITE

Fig. 167.



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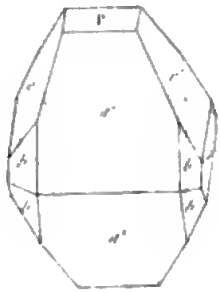
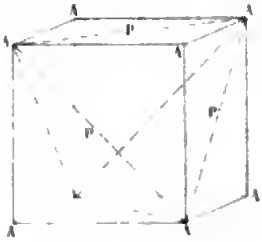


ZINC SULFURÉ

BLENDE

Fig. 169.



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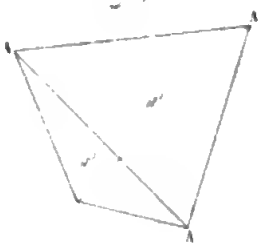


NAPOLI BIBLIOTECA NAZIONALE

ZINC SULFURÉ.

BLENDE.

Fig 171.

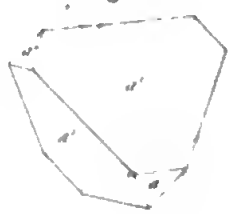


Fig 172.

Fig 173.

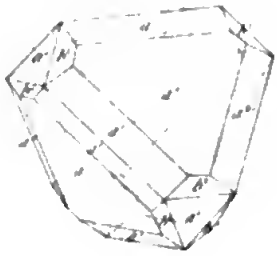
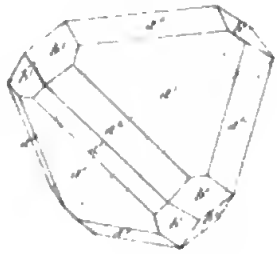


Fig 174



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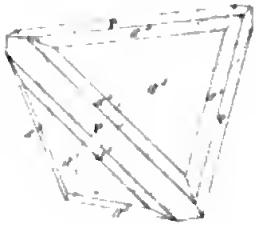

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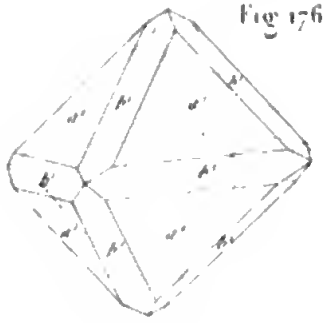

VITTORIO EMANUELE III · BIBLIOTECA NAZIONALE NAPOLI

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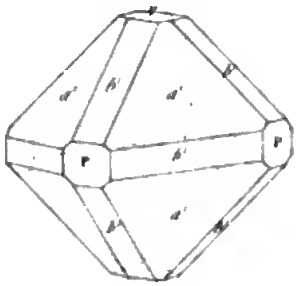
ZINC SULFURÉ.

Fig. 177.



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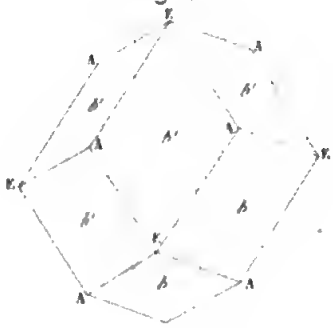

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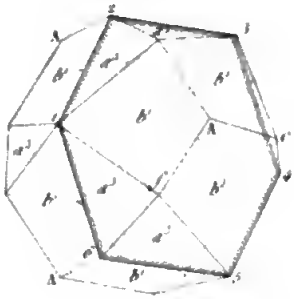

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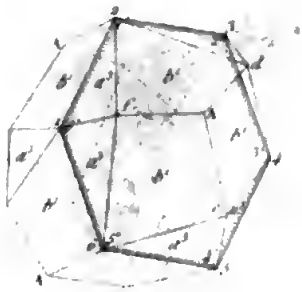

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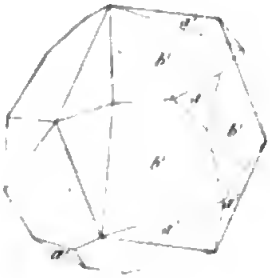

Fig. 182.

BIBLIOTECA NAZ. VITTORIO EM. III
NAPOLI

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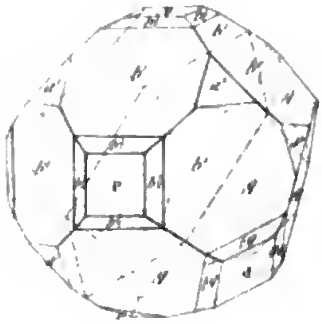
ZINC SULFURÉ

Fig. 183.



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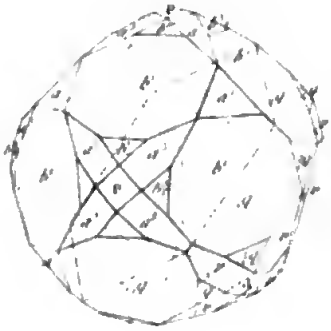


ZINC CARBONATE.

Fig. 185.

Fig. 186.

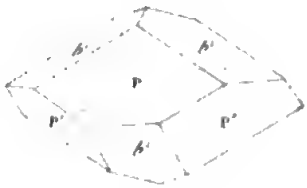
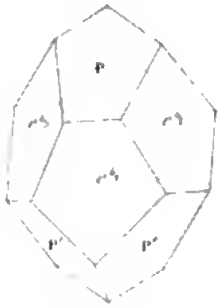


Fig. 187.

Fig. 188.



NAPOLI

ZINC CARBONATÉ

Fig. 189.

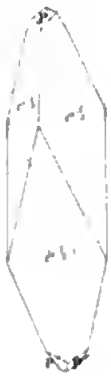
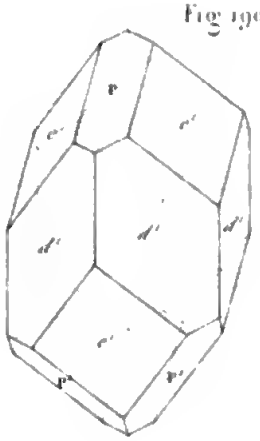


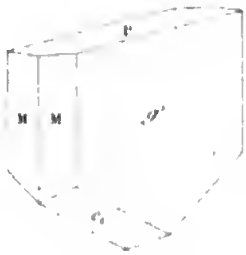
Fig. 190



ZINC SILICATÉ

Fig. 191

Fig. 192



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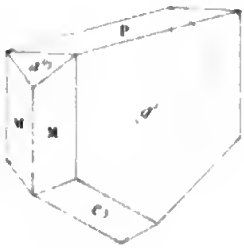

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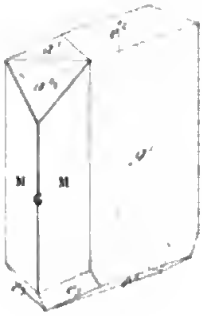

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

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ZINC SILICATÉ

Fig. 195.

Fig. 196.

Fig. 197.

Fig. 198.

Fig. 199.

Fig. 198.

BIBLIOTHECA NAZIONALE VITTORIO EMANUELE III - NAPOLI

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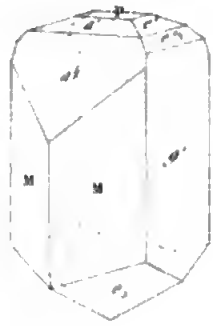
ZINC SILICATÉ

Fig. 200.



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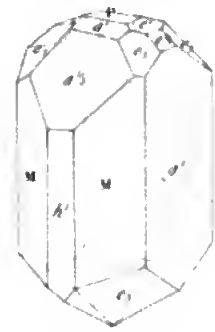

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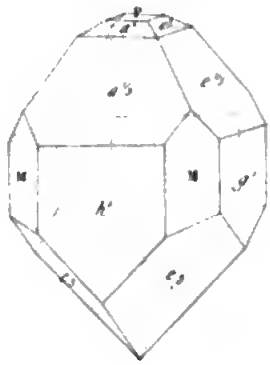

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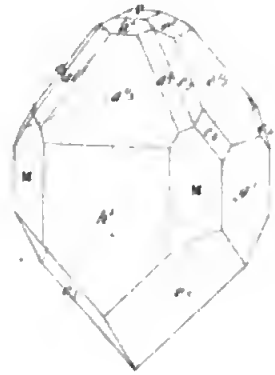
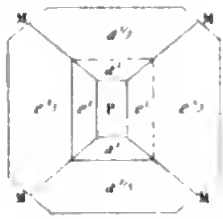
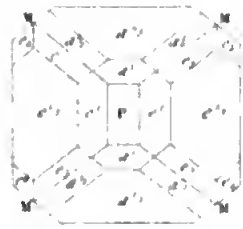


Fig. 202.bis



PLAN

Fig. 203.bis

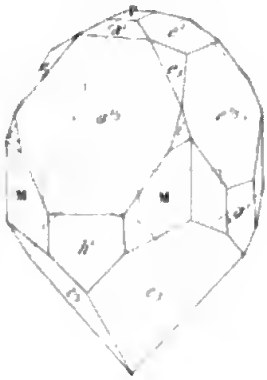


PLAN

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

ZINC SILICATÉ

Fig 204



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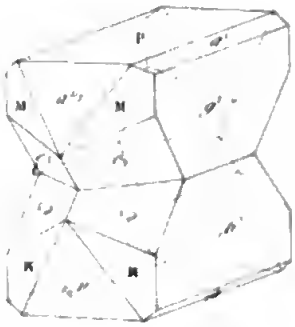
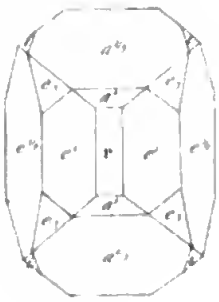


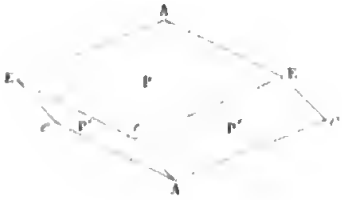
Fig 204 bis



PLAN

WILLÉMITE.

Fig 205 bis



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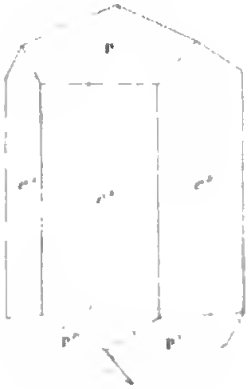

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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HOPÉITE.

Fig. 207.

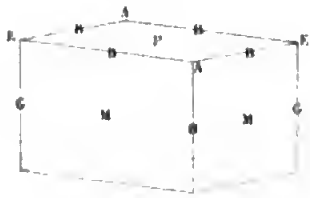


Fig. 208.

Fig. 209.

TELLURE MURO-PLOMBIFÈRE

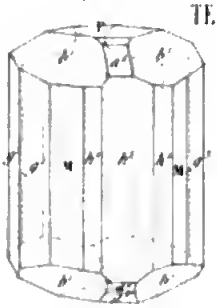
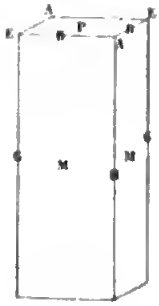


Fig. 210.

CADMIUM SULFURÉ

GRÉNOCKITE.

Fig. 211



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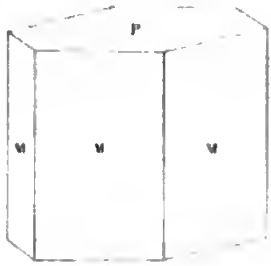

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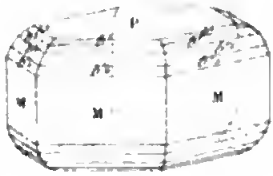

Fig. 214

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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ANTIMOINE SULFURÉ

Fig. 215.

Fig. 216

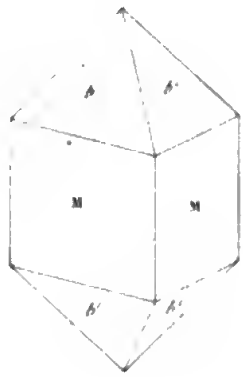


Fig. 217.

Fig. 218.

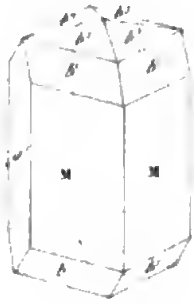


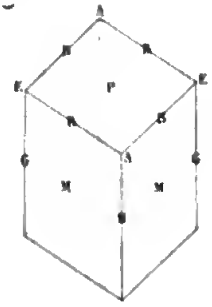
Fig. 219.

Fig. 220.

BIBLIOTECA NAZIONALE "VITTORIO EM." NAPOLI

ZINKÉNITE.

Fig. 221.



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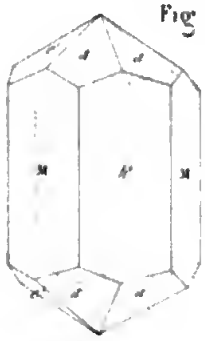

PLAGIONITE.

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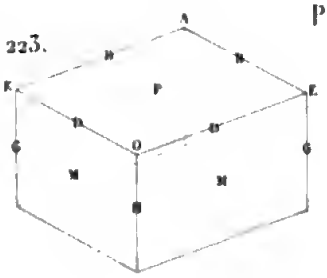

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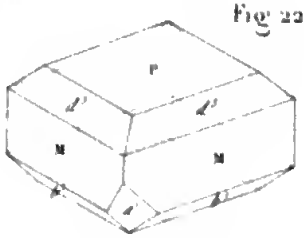
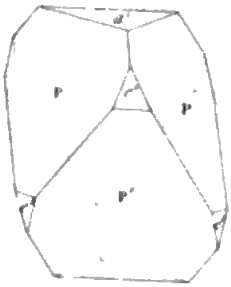


MERCURE SULFURÉ

Fig. 225.

Fig. 226.



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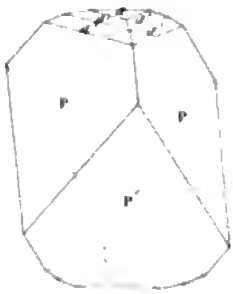
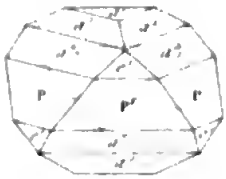


Fig. 228.

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

MERCURE SULFURÉ

Fig. 229.



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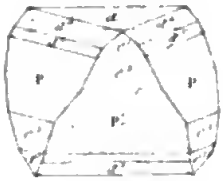


MERCURE CHLORURÉ.

Fig. 231.

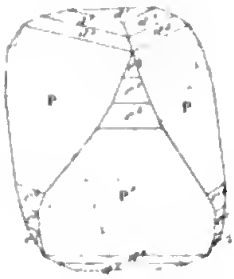


Fig. 232

Fig. 233.

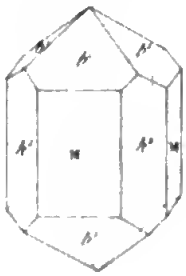
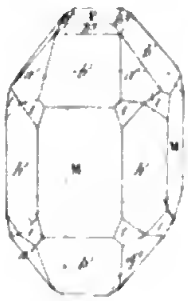


Fig. 234



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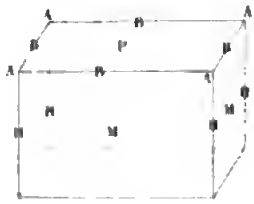
RUTILE.

Fig. 235.



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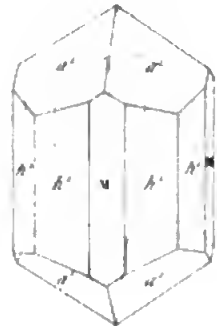


Fig. 237.

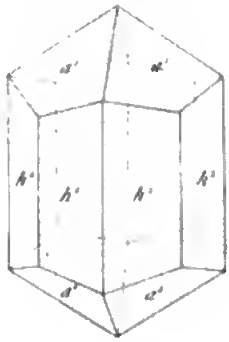


Fig. 238

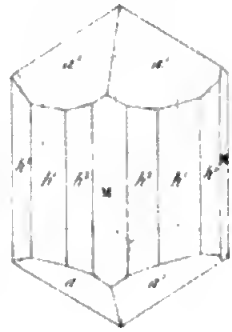
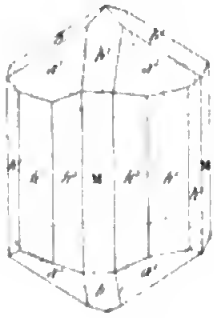


Fig. 239.



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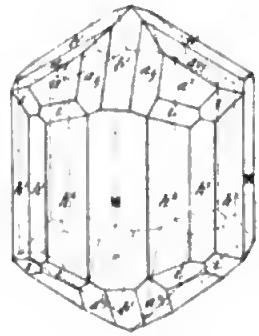

$t = (h^1 h^{1/2} h^{1/3})$

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

RUTILE.

Fig. 241.

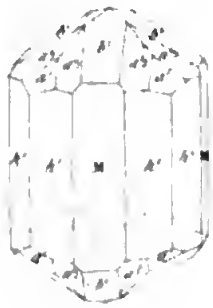

Fig. 242.

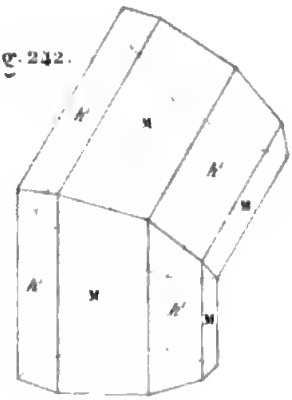

Fig. 243.

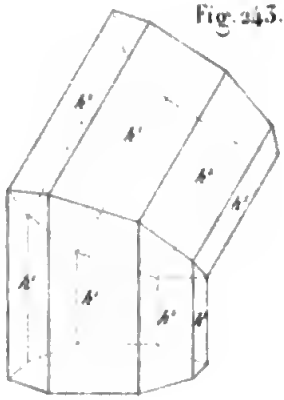

Fig. 244.

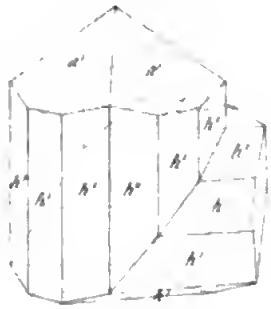

Fig. 245.

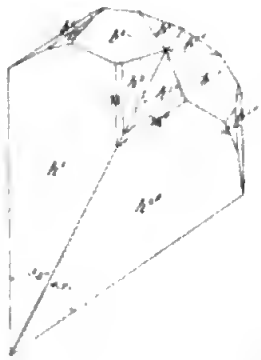

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Fig. 246.

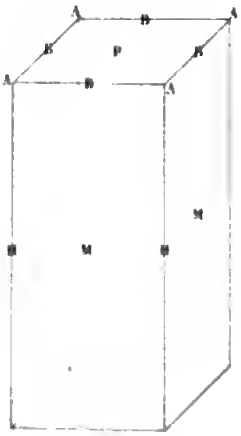


Fig. 247.

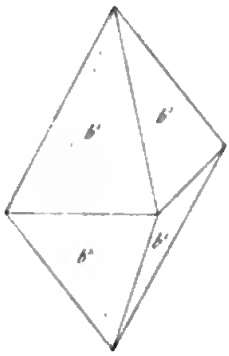
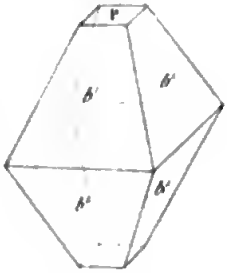


Fig. 248.



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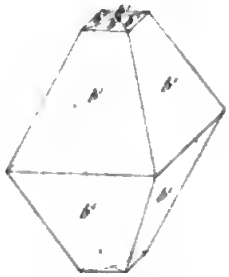


Fig. 250

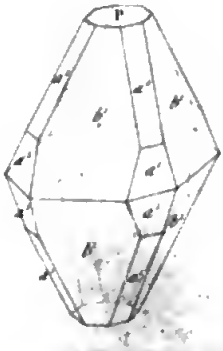
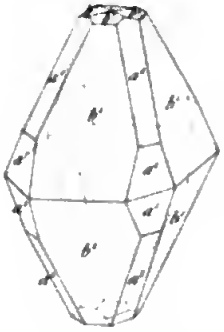


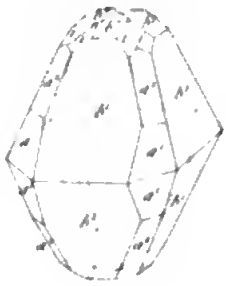
Fig. 251.



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

ANATASE

Fig. 252.



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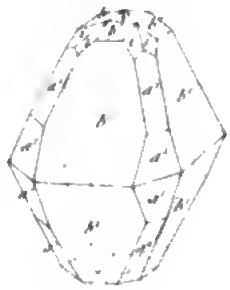

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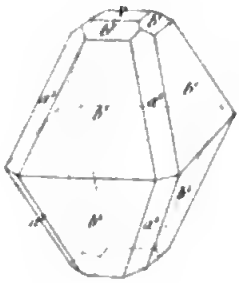


Fig. 255.

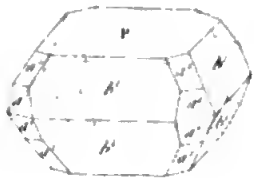


Fig. 256.

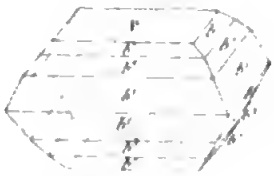
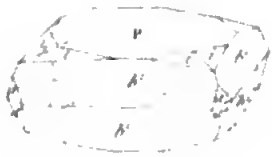


Fig. 257



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BROOKITE

Fig. 258

Fig. 259.

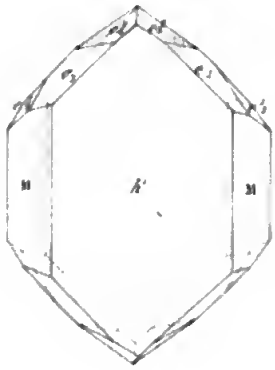


Fig. 260

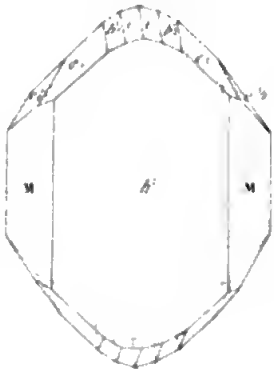
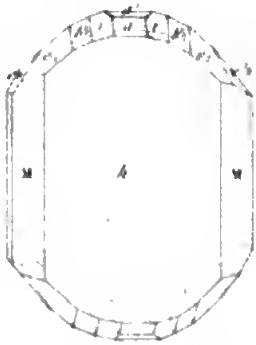


Fig. 261



$t = (b' b^{\prime 2} h^{\prime 3})$

Fig. 262.

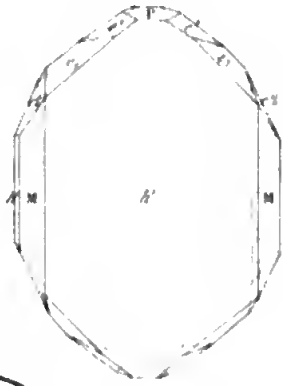


Fig. 263.

$t = (b' b^{\prime 2} h^{\prime 3})$

Lemaître del. et sc.

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PLOMB SULFURÉ.

GALENE

Fig. 264.

Fig. 265.

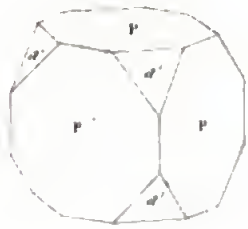


Fig. 266.

Fig. 267.

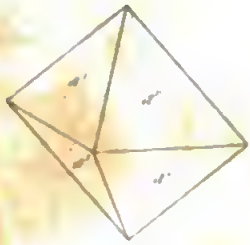


Fig. 268

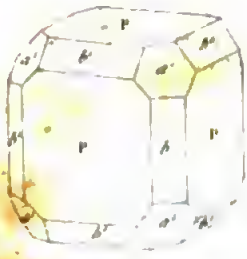
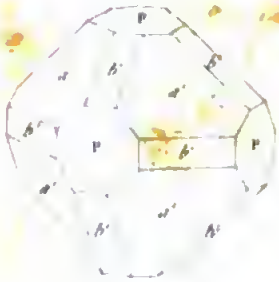


Fig. 269



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

NOTATION

ADOPTÉE

POUR REPRÉSENTER LES FACES DES CRISTAUX

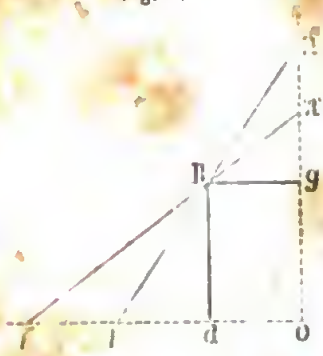
ET

MÉTHODE POUR LES CONSTRUIRE.

J'ai désigné avec Haüy les faces des formes primitives par les lettres P, M, T, les angles par des voyelles, et les arêtes par des consonnes. Les parties semblables portent la même lettre, en sorte que dans le cube les huit angles sont marqués de la lettre A, tandis que les douze arêtes le sont par la lettre B.

Les facettes secondaires sont désignées par de petites lettres qui rappellent les éléments du cristal sur lesquels elles sont placées; un chiffre indique, en outre, la loi qui préside à leur dérivation. Cette méthode montre, par la simple inspection de la figure, toute la symétrie des cristaux; elle permet en même temps de saisir les rapports des différentes facettes entre elles, ainsi qu'avec la forme primitive.

Fig. 1.



Une modification *fn*, fig. 1, naissant sur l'arête B d'un prisme rectangulaire par un plan tangent, sera représentée, d'après cette notation, par le symbole b^1, le chiffre 1 rappelant que la facette nouvelle est le résultat d'un décroissement d'une rangée en hauteur et d'une rangée en largeur; en effet, *fn*

étant la trace de ce plan, cette ligne coupe les axes aux distances $gn = H$, et $df = C$, longueur du côté perpendiculaire à l'arête B. Le symbole b^2 indique une facette donnée par un décroissement de deux rangées en largeur sur une en hauteur.

Pour le démontrer, je remarque que le point B représentant la projection de l'arête B, O le centre du cristal, Og la hauteur d'une molécule, et Bg sa largeur, la ligne $f'n'$ sera la trace du plan produit par la loi indiquée; or, cette ligne coupe l'axe horizontal Od à la distance $df' = 2\,df = 2\,C$, sa notation sera donc b^2. On aurait de même $b^{1/2}$ pour une facette donnée par un décroissement d'une rangée en largeur sur deux en hauteur.

La fig. 271, pl. 44, appartenant à la chaux phosphatée, fournit un exemple de trois séries de facettes placées sur les arêtes de la base de la forme primitive. Leurs lois de dérivation sont, deux rangées en largeur sur une en hauteur, une rangée sur une, enfin, une de largeur sur deux de hauteur: leurs symboles sont par conséquent b^2, b^1, $b^{1/2}$. La même figure fournit des exemples de modifications placées sur les angles A; elles sont marquées a^2, a^1; c'est-à-dire que la première, qui est produite par un décroissement de deux rangées en largeur sur une de hauteur, coupe la hauteur à une distance 1/2H, tandis que la seconde est également inclinée sur les faces qui forment l'angle A.

Les modifications sur les arêtes ne sont placées que d'une seule manière; celles sur les angles peuvent présenter trois dispositions, suivant qu'elles coupent les faces de la forme primitive parallèlement à la diagonale de P, de T ou de M (voir vol. Ier, p. 156). Ces différences sont exprimées par la position du chiffre; on aura donc a^1, ou a^2, fig. 271, pl. 44, pour des modifications placées sur l'angle A, coupant l'axe à des dis-

tances 1 et 1/2, et dont les traces sur P seraient parallèles à la diagonale opposée à l'angle sur lequel la modification a eu lieu. Le signe a_2, fig. 272, pl. 44, indique une modification placée sur l'angle A, coupant la face de droite de cet angle parallèlement à la diagonale, et donnée par un décroissement de deux rangées en largeur sur une en hauteur.

Enfin, les facettes qui résultent de décroissements intermédiaires sont marquées de la lettre *i*, ainsi qu'on le voit dans la fig. 246, pl. 40, appartenant à la *chaux fluatée*. Pour faire connaître la loi de décroissement qui les régit, j'ai écrit au-dessous de la figure, ainsi que dans le texte, le symbole qui les représente. Dans cet exemple, la facette *i* coupe les côtés aux distances 1, 1/2 et 1/4, ce que l'on exprime par le signe $i = (b^1\, b^{1/2}\, b^{1/4})$.

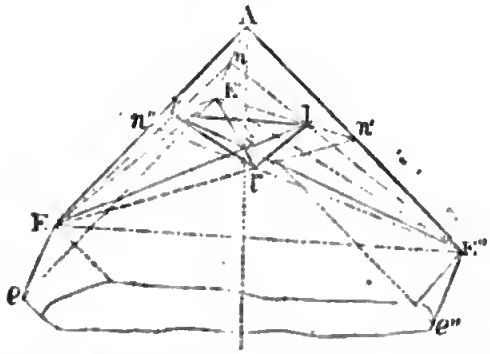
Construction des cristaux. — Ces détails sur la notation adoptée donnent le moyen de construire les cristaux; en effet, soit, fig. 267, pl. 43, un prisme à six faces surmonté d'un pointement à six faces, donné par une rangée en hauteur et une rangée en largeur. Pour construire ce pointement, il suffit de prolonger d'une longueur, ou de la demi-hauteur du prisme, l'axe parallèle aux arêtes verticales, et de mener du point qui en résulte des lignes aux angles du prisme : ces lignes sont les intersections des faces b^1. Si la loi de décroissement eût été $b^{1/2}$, ainsi que cela a lieu dans la fig. 270, pl. 44, comme cette notation correspond à une rangée en largeur sur deux en hauteur, ou une demie en largeur sur une en hauteur, on aurait prolongé l'axe d'une longueur ou de la hauteur totale du prisme.

La construction des facettes sur les angles est aussi simple; seulement, dans ce cas, au lieu de se servir comme point de départ du prisme, fig. 263, pl. 43, on commencera par

construire le prisme à six faces tangent aux arêtes H ; ce sont les angles de ce nouveau prisme qui donneront les lignes d'intersection des faces a^1 ou $a^{1/2}$, suivant qu'on les mènera d'un point situé sur l'axe à une distance H ou 2 H.

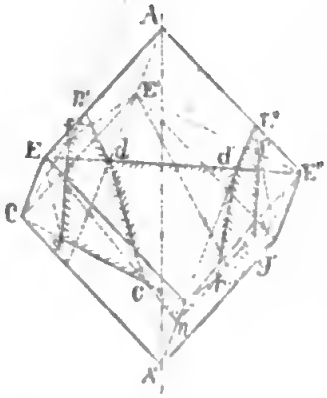
La construction des modifications sur les rhomboèdres est en apparence un peu plus compliquée. Je vais indiquer par deux exemples la méthode que l'on doit suivre pour les obtenir. Je supposerai d'abord qu'on veuille construire un rhomboèdre, placé sur l'angle sommet donné par un décroissement d'une rangée en hauteur et de deux en largeur, dont l'expression est a^2.

Fig. II.



Soit, figure II, le rhomboèdre primitif : je mène par la diagonale EE″ un plan coupant l'arête du sommet opposé AE′ en son milieu n ; comme il y a trois faces symétriques, je répéterai la même construction sur les trois diagonales correspondantes : on obtient alors trois plans triangulaires EE″n, EE′n', E′E″n''. Ces plans se coupent deux à deux suivant les lignes El, E″l', El'. Ces trois lignes se rencontrent en un point S qui est le sommet du nouveau rhomboèdre ; leur direction donne celle des trois arêtes culminantes, en sorte que le sommet supérieur du nouveau rhomboèdre est S$ll'l'$. On répétera la même construction au sommet inférieur pour compléter le cristal ; les fig. 90, pl. 67, et 99, pl. 68, qui appartiennent au fer oligiste, montrent le primitif P surmonté de ce pointement très-obtus.

Fig. III.



Je choisirai pour second exemple la modification e^3, représentant un rhomboèdre aigu naissant sur les angles E, par un décroissement d'une rangée en hauteur et de trois en largeur : soit, fig. III, le rhomboèdre primitif. Les modifications dans ce cas ayant lieu sur les angles latéraux, les plans coupants devront s'appuyer sur les diagonales, de manière à enlever ces angles. Je prendrai, en conséquence, sur l'arête culminante inférieure A'e' un point n placé au tiers de la longueur; par ce point et la diagonale EE'', je ferai passer un plan qui produira une troncature menée suivant la loi e^3. Les points n' et n'' étant pris à des distances En' = 1/3 AE, E''n'' = 1/3 AE'', les plans coupants $ee'n'$, $e'e''n''$, rempliront les mêmes conditions, et leurs intersections respectives cd, $c'd'$, fg, $f'g'$, seront les arêtes du nouveau rhomboèdre. Pour avoir les trois autres faces du rhomboèdre e^3, il faudrait faire la même construction sur les diagonales ee'', EE', E'E'', placées sur le derrière du cristal. La fig. 91, pl. 67, qui appartient également au fer oligiste, représente l'association du primitif et de ce nouveau rhomboèdre ; pour l'avoir complet, il suffirait de prolonger les arêtes cd, $c'd'$, cd, fg, $c'd'$, $f'g'$, ainsi que les arêtes de derrière correspondantes.

Si le rhomboèdre secondaire était donné par le signe $e^{1/3}$, il faudrait mener le plan EE''n de manière qu'il coupât l'arête du sommet à une longueur triple de la sienne, ce qui reviendrait à mener un plan par le sommet A, et par des points placés au tiers des arêtes Ee', Ee, à partir de l'angle E.

Les exemples que je viens de donner embrassent les cas les

plus difficiles, et suffisent pour guider les personnes qui voudraient construire des cristaux d'après leur loi de dérivation.

NOTATION DE M. NAUMANN.

Le *Traité de cristallographie* que M. Naumann, professeur à Freiberg, a publié en 1826, jouit d'une juste réputation; la notation qu'il a donnée est fondée, comme celle de M. Weiss et de M. G. Rose, sur les distances auxquelles les faces des cristaux coupent les axes de la forme primitive. En indiquant les notations de ces deux savants cristallographes, j'avais également énoncé celle de M. Naumann; mais cette dernière notation ayant été depuis quelques années adoptée par beaucoup de minéralogistes de l'Allemagne, je crois nécessaire de la faire connaître avec quelques détails.

Je rappellerai d'abord que Naumann admet sept systèmes cristallins [1]; la différence de symétrie qui caractérise chacun de ces systèmes entraîne des différences correspondantes dans leur notation : cinq d'entre eux peuvent être considérés comme dérivant de formes octaédriques. Il désigne par la lettre O l'octaèdre régulier qui caractérise le premier système, et par la lettre P les octaèdres qui servent de point de départ aux autres systèmes, ainsi que le bi-rhomboèdre du système hexagonal. Sa notation rappelle constamment la forme primitive, et les coefficients dont elle est accompagnée, placés soit à gauche, soit à droite des lettres O et P, expriment les distances auxquelles les faces secondaires coupent les axes. Quoique

[1] Voir t. Ier, p. 148.

la notation de Naumann soit fondée sur ce principe général, il est cependant nécessaire, pour en rendre l'exposition complète, d'examiner chaque système successivement.

I. Système régulier; (*Tesseral system*).

Ce système est caractérisé par trois axes égaux et perpendiculaires entre eux. Il renferme des cristaux *homoèdres*, ou complets, et des cristaux *hémièdres*, ou demi-cristaux : ces derniers se divisent en deux classes, suivant que leurs faces sont ou non parallèles deux à deux.

Toutes les formes de ce système peuvent être classées comme il suit :

Formes homoèdres.

Cube; (tome I, p. 34, fig. 6).
Octaèdre; (tome I, p. 36, fig. 8).
Dodécaèdre rhomboïdal; (tome I, p. 38, fig. 11).
Hexatétraèdres; (tétrakihéxaèdres) (tome I, p. 41, fig. 15).
Octotriaèdres; (triakisoctaèdres) (tome I, p. 46, fig. 22).
Trapézoèdres; (ikositétraèdres) (tome I, p. 43, fig. 19).
Hexakisoctaèdres; (tome I, p. 49, fig. 25).

Formes hémièdres, à faces parallèles deux à deux.

Dodécaèdres pentagonaux; (tome I, p. 56, fig. 33).
Diakisdodécaèdres; sortes de trapézoèdres.

Formes hémièdres, à faces non parallèles.

Tétraèdre; (tome I, p. 58, fig. 27).
Trigon-dodécaèdres; tétraèdres pyramidaux, dodécaèdres à faces triangulaires; (tome I, p. 55, fig. 31).

Deltoïde-dodécaèdres; tétraèdres pyramidaux, dodécaèdres à faces quadrangulaires.

Hexakis-tétraèdres pyramidaux; sortes d'ikositétraèdres.

Notation des formes homoèdres.

Octaèdre. Ses faces coupent les axes aux distances 1 : 1 : 1; sa notation est 0.

Cube. Ses faces coupent les axes aux distances $\infty : \infty : 1$; sa notation sera $\infty 0 \infty$.

Dodécaèdre rhomboïdal. Ses faces coupent les axes aux distances $\infty : 1 : 1$; sa notation sera $\infty 0$.

Hexatétraèdres. Leurs faces coupent les axes aux distances $\infty : n : 1$, n étant > 1; leur notation est $\infty 0 n$; les plus fréquents sont $\infty 0\ ^3/_2$; $\infty 0 2$; $\infty 0 3$.

Octotriaèdres. Leurs faces coupent les axes aux distances $m : 1 : 1$, m étant > 1; leur notation sera $m 0$; les plus fréquents sont $^3/_2 0$; $2 0$ et $3 0$.

Trapézoèdres. Leurs faces coupent les axes aux distances $m : m : 1$, m étant > 1; leur notation sera $m 0 m$; les plus fréquents sont $2 0 2$ et $^3 0^3$.

Hexakisoctaèdres. Leurs faces coupent les axes aux distances $m : n : 1$, m et n étant > 1; leur notation sera $m 0 n$; les plus fréquents sont $^3 0\ ^3/_2$, $4 0 2$ et $^5 0\ ^5/_3$.

Notation des formes hémièdres.

La notation de ces formes est la même que celle de la forme homoèdre correspondante, divisée par 2, et à laquelle on donne le signe + ou —, suivant qu'il s'agit de l'un ou de l'autre des deux demi-cristaux.

Dodécaèdres pentagonaux. Hémièdres des hexatétraèdres

∞ O n; leur notation sera $\frac{\infty O n}{2}$; la variété $\frac{\infty O 2}{2}$ est très-fréquente.

Diakisdodécaèdres. Hémièdres des hexakisoctaèdres m O n; leur notation sera $\frac{m O n}{2}$; les plus fréquents sont $\left(\frac{{}^{3}O\ {}^{3}/_{2}}{2}\right)$, $\left(\frac{{}^{4}O 2}{2}\right)$ et $\left(\frac{{}^{3}O\ {}^{3}/_{2}}{2}\right)$

Tétraèdre. Hémièdre de l'octaèdre O; sa notation sera $\frac{O}{2}$.

Trigon-dodécaèdres. Hémièdres des trapézoèdres m O m; leur notation sera $\frac{m O m}{2}$; le plus fréquent est $\frac{{}^{3}O 2}{2}$.

Deltoïde-dodécaèdres. Hémièdres des octotriaèdres m O; leur notation sera $\frac{m O}{2}$, qui présente la variété $\frac{{}^{3}/_{4}\ O}{2}$.

Hexakistétraèdres. Hémièdres des hexakisoctaèdres, m O n; leur notation sera $\frac{m O n}{2}$, comme les diakisdodécaèdres, dont ils diffèrent du reste complétement, leurs faces étant triangulaires; les plus fréquents sont ; $\frac{{}^{3}O\ {}^{3}/_{2}}{2}$ et $\frac{{}^{3}O\ {}^{3}/_{3}}{2}$.

II. Octaèdre droit a base carrée; (*Tetragonal system*).

Il est caractérisé par trois axes rectangulaires entre eux, dont deux seulement sont égaux. Ce système comprend des formes fermées et des formes ouvertes :

Formes fermées.

Octaèdres à base carrée; (tetragonale pyramiden).

Dioctaèdres; (ditetragonale pyramiden).

Tétraèdre; (tetragonale spheroïde). Hémièdre de l'octaèdre.

Scalénoèdres à 8 faces; (tetragonale skalenoëder). Hémièdres des dioctaèdres.

Trapézoèdres tétragonaux; (tetragonale skalenoëder). Hémièdres des solides à 48 faces.

Formes ouvertes.

Prismes à base carrée; (tetragonale prismen).

Prismes à 8 faces ; (ditetragonale prismen).

Tables prismatiques; (basisches pinakoid).

Notations. Soit 1 les axes égaux, et *a* l'axe vertical.

L'*octaèdre primitif* P coupera les axes aux distances 1 : 1 : *a*; les *octaèdres* placés sur les arêtes de la base les couperont aux distances 1 : 1 : *ma ; m* <ou> 1; ils seront alors représentés par le signe *m*P; le coefficient *m* indiquant cette distance, on aura donc, pour les octaèdres successifs coupant l'axe vertical aux distances, 1/2, 2 et 3, les signes $^1/_2$ P; 2 P; 3 P. Plus l'axe vertical s'allonge, plus l'octaèdre devient aigu ; il se transforme en prisme dont les faces sont verticales quand $m = \infty$; le signe du prisme à base carrée s'appuyant sur les arêtes de la base de l'octaèdre primitif est donc ∞ P; par la même raison $m = o$, donne la base de ce prisme, dont le signe est oP. C'est également le symbole des tables prismatiques.

Les *dioctaèdres* de même hauteur que les octaèdres, seront représentés par le symbole *m*P*n* ; *n* étant >1; si on suppose que $n = \infty$, le symbole devient *m*P∞, qui représente les octaèdres à base carrée, placés sur les arêtes de ceux dont le signe est *m*P ; on voit en effet que les arêtes de la base de ce second groupe d'octaèdres, sont parallèles aux diagonales de l'octaèdre primitif, qui sont les deux axes horizontaux.

Les *prismes à 8 faces* seront, par la même raison, représentés par le symbole ∞P*n*, et il en résultera, comme cas particulier, que le signe ∞ P ∞ sera celui du prisme tangent au prisme ∞ P.

III. Système rhomboédrique; (*Hexagonal system*).

Ce système est caractérisé par 1 axe vertical, et par 3 axes horizontaux égaux entre eux, et formant les diagonales d'un hexagone régulier.

La *double pyramide à 6 faces* qui constitue la forme primitive adoptée par Naumann est représentée par 1 : *a* ou P ; les autres doubles pyramides qui naissent sur celle-ci ont pour notation, comme dans le système précédent, *m*P, ou *m*P, ou *m*P*n*; ce dernier signe convient aussi aux doubles pyramides à 12 faces ; les prismes hexaèdres sont représentés par ∞ P, et plus généralement par ∞ P*n*, qui convient aussi aux prismes à 12 faces ; les tables hexagonales sont o P.

Les *rhomboèdres* seront $\pm\frac{mP}{2}$ ou $\pm m$R.

Les *skalénoèdres* ou *métastatiques* (tome 1, page 100, fig. 79), seront représentés par $m\mathrm{R}^n$, *m*R étant le rhomboèdre inscrit, et *n* le rapport des axes verticaux du métastatique et du rhomboèdre. Les prismes dérivés du rhomboèdre seront représentés par ∞ R et $\infty\,\mathrm{R}^2$.

IV. Octaèdre droit a base rhombe; (*Rhombisches kristall system*).

Caractérisé par trois axes inégaux perpendiculaires entre eux.

L'*octaèdre primitif* est représenté par $a:b:c$ ou P ; soit $b>c$ et $=1$; *b* sera la grande diagonale de la base appelée *makrodiagonale*, et *c*, la petite, désignée par l'expression de *brachydiagonale*.

La suite oP... P... *m*P.., ∞ P.

donne la *table rhomboïdale*, les différents octaèdres et le prisme droit, de même base que l'octaèdre primitif.

En allongeant la grande diagonale *b*, on obtiendra une autre série analogue :

$$o\bar{P}n \ldots \bar{P}n \ldots mPn \ldots \infty\bar{P}n \quad ; n>1 .$$

En allongeant la petite diagonale *c*, on obtient une troisième série :

$$o\breve{P}n \ldots \breve{P}n \ldots m\breve{P}n \ldots \infty\breve{P}n \quad n>1.$$

Les longues et les brèves placées au-dessus de la lettre P indiquent le sens de l'allongement.

Si on fait $n=\infty$, on aura les deux séries de prismes horizontaux ou couchés $m\bar{P}\infty$ et $m\breve{P}\infty$.

V. Octaèdre a base rhombe, oblique, symétrique; (*Monoklinoëdrisch system*).

Caractérisé par un axe (*orthodiagonale*) perpendiculaire au plan des deux autres, dont l'un est pris pour axe principal, et l'autre pour second axe de la base (*klinodiagonale*).

L'*octaèdre primitif* est représenté par l'expression $a:b:c$, *a* étant axe principal, *b* la klinodiagonale, et *c* l'orthodiagonale ; il est divisé en deux couples de 4 faces $+P$ et $-P$, placées, les premières dans l'angle aigu, les secondes dans l'angle obtus de la base avec le plan des axes *a* et *c*.

Il y a dans ce système *trois sortes des prismes :* ceux dont les faces sont parallèles à l'axe *a* (*prismen*) (*prisme rhomboïdal oblique*) ; ceux dont les faces sont parallèles à l'axe *b* (*prisme*

rhomboïdal oblique couché) (*klinodomen*); ceux enfin dont les faces sont parallèles à l'axe *c* (*prisme oblique couché* à base parallélogramme, et qui se divise en deux *hemidomen*).

On formera, comme dans le système précédent, les séries :

o P. . .	$\pm m$P. . .	$\pm$P. . .	$\pm m$P. . .	∞ P.
Tables.	Oct. surbaissé.	Oct. primitif.	Oct. surhausse.	Prisme rhomb. obliq.

o Pn...$\pm m$Pn... $\pm$Pn... $\pm m$Pn... ∞ Pn par l'allongement de *c*.

[o Pn]... $\pm$[mPn]... $\pm$[Pn]... $\pm$[mPn]... [∞Pn] par l'allongement de *b*.

Pour $n = \infty$, on aura les 2e et 3e séries de prismes $\pm m$P∞ (hemidomen), et $\pm$[mP∞] (klinodomen) ayant pour limites les tables ∞P∞ et [∞P∞].

VI. Octaèdre oblique non symétr., a base parallélogramme; (*Triklinoëdrisches system*).

Caractérisé par trois axes inégaux $a:b:c$ et obliques. On distingue dans l'octaèdre primitif quatre séries de doubles faces ^{1}P, P^{1}, $_{1}$P, P$_{1}$, de sorte que l'octaèdre complet est $^{1}_{1}$P$^{1}_{1}$, et les divers octaèdres : de même base, m^{1}_{1}P$^{1}_{1}$; par l'allongement de *b*, $m^{1}_{1}\overline{\mathrm{P}}^{1}_{1}n$; par l'allongement de *c*, $m^{1}_{1}\breve{\mathrm{P}}^{1}_{1}n$. Les prismes limites sont ∞^{1}P, ∞P^{1}, $m^{1}_{1}\overline{\mathrm{P}}^{1}_{1}\infty$, $m^{1}_{1}\breve{\mathrm{P}}^{1}_{1}\infty$.

VII. (*Diklinoëdrisches system*).

Cas particulier du précédent.

Comparaison des Notations.

Les notations de M. G. Rose, de M. Naumann, et celle que j'ai adoptée avec M. Lévy, prennent leur origine dans la belle loi que Haüy a établie pour la dérivation des formes secondaires sur les formes primitives; le tableau suivant, dans lequel j'ai mis en regard ces notations, fait ressortir ce principe qui leur est commun. En effet, on remarque que les coefficients de Weiss, de Rose et de Naumann, sont les mêmes que les exposants qui indiquent les lois de dérivation dans la notation dont je me sers. Il en résulte que ces notations constituent seulement des manières différentes de représenter la loi de Haüy. Sous le rapport philosophique, elles ont par conséquent une égale valeur. Le lecteur jugera si elles sont également simples, et si elles pourraient être indifféremment reportées sur les figures représentant les cristaux. Cette condition me paraît cependant indispensable pour l'étude; je crois, en outre, que la notation que j'ai adoptée a l'avantage de rappeler à la pensée, et sans effort de mémoire, la position des facettes secondaires sur les éléments de la forme primitive.

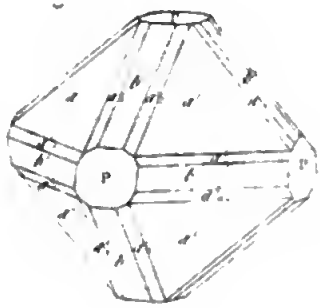
	Lévy et Dufrénoy.	Weiss et Rose.	Naumann.
SYSTÈME RÉGULIER. *Forme primitive.* Lévy et Dufrénoy, *cube.* Weiss, Rose et Naumann, *octaèdre.*	a^1	$a : a : a$	O.
	P	$a : \infty a : \infty a$	∞ O ∞.
	b^1	$\infty a : a : a$	∞ O.
	b^n	$a : na : \infty a$	∞ On.
	a^m	$ma : ma : a$	mOm.
	$a^1/^m$	$a : a : ma$	mO.
	$i = (b^1 b^m b^n)$	$ma : a : na$	mOn.

	Lévy et Dufrénoy.	Weiss et Rose.	Naumann.
PRISME DROIT A BASE CARRÉE. *Forme primitive.* Lévy et Dufrénoy, *prisme.* Weiss, Rose et Naumann, *octaèdre.*	a^1	$a : a : c$	P.
	P	$\infty a : \infty a : c$	∞ P ∞.
	M	$a : \infty a : \infty c$	oP.
	h^1	$a : a : \infty c$	∞ P.
	b^1	$a : \infty a : c$	P ∞.
	$a^1/^m$	$a : a : mc$	mP.
	$b^1/^m$	$a : \infty a : mc$	mP ∞.
	h^n	$a : na : \infty c$	∞ Pn.
	$i=(b^1 b^1/^m h^1/^n)$	$mc : a : na$	mPn.
PRISME RECTANGULAIRE DROIT. *Forme primitive.* Lévy et Dufrénoy, *prisme rectangle.* Weiss, Rose et Naumann, *octaèdre à base rhombe.*	a^1	$a : b : c$	P.
	$a^1/^m$	$a : b : mc$	mP.
	$a_{1/m}$	$a : mb : c$	$\breve{P}m$.
	$_{1/m}a$	$ma : b : c$	$\breve{P}m$.
	P	$\infty a : \infty b : c$	OP.
	M	$a : \infty b : \infty c$	∞ P ∞.
	T	$\infty a : b : \infty c$	
	b^1	$a : \infty b : c$	$\breve{P}$ ∞.
	$b^1/^m$	$a : \infty b : mc$	m$\breve{P}$ ∞.
	d^1	$\infty a : b : c$	P ∞.
	$d^1/^m$	$\infty a : b : mc$	m$\breve{P}$ ∞.
	$i=(b^1 d^1/^n h^1/^m)$	$a : nb : mc$	mPn,
	$i'=(b^1/^n h^1/^m)$	$na : b : mc$	mPn
	h^1	$a : b : \infty c$	∞ P.
	$h^1/^m$	$a : nb : \infty c$	∞ $\breve{P}n$.
		$na : b : \infty c$	∞ $\breve{P}n$.
RHOMBOÈDRE. *Forme primitive.* Lévy et Dufrénoy, *prisme hexagonal régulier.* Weiss, Rose et Naumann, *double pyr. à six faces.*	P	$\infty a : \infty a : \infty a : c$	oP.
	M	$a : a : \infty a : \infty c$	∞ P.
	b^1	$a : a : \infty a : c$	P.
	$b^1/^n$	$a : a : \infty a : nc$	nP.
	a^1	$2a : a : 2a : c$	P2.
	$a^1/^n$	$2a : a : 2a\ nc$	nP2.
	h^1	$2a : a : 2a : \infty c$	∞ P2.
	$=(b^{2n} b^{2m} h^k)$	$2na : a : 2ma : kc$	kP$^{m}/^{n}$.

PLOMB SULFURÉ

Fig. 270.

Fig. 271.



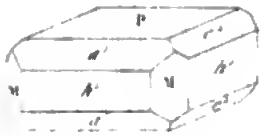
BOURNONITE

Fig. 272.

Fig. 273.

Fig. 274.

Fig. 275.



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BOURNONITE

Fig 276

Fig 277

Fig 278

Fig 279

Fig 280

Fig 281

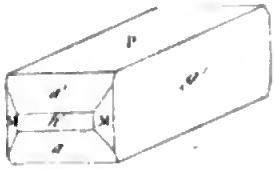


Fig 282

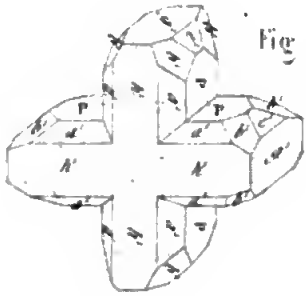
Fig 283

NAPOLI

BOURNONITE.

Fig. 284

Fig. 285



PLOMB CARBONATÉ.

Fig. 286.

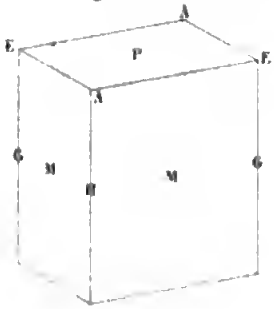


Fig. 287.

Fig. 288

Fig. 289

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PLOMB CARBONATÉ

Fig. 290

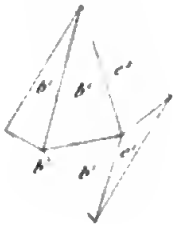


Fig. 291

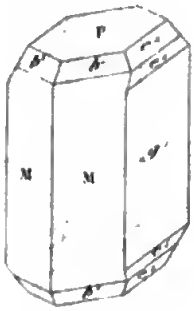
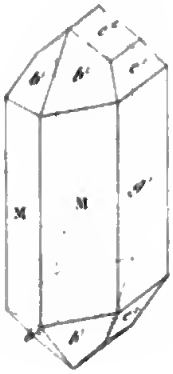


Fig. 292



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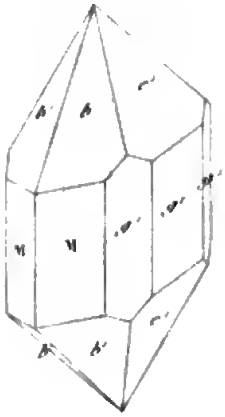


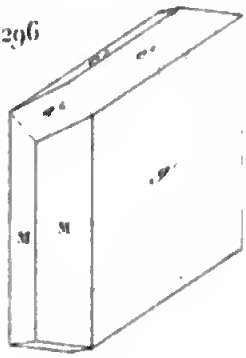
Fig. 294

Fig. 295

BIBLIOTECA NAZIONALE NAPOLI

PLOMB CARBONATÉ

Fig. 296



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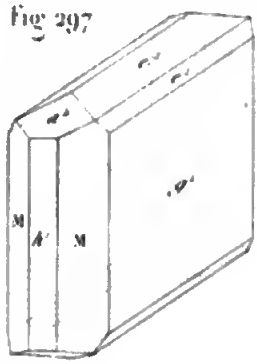

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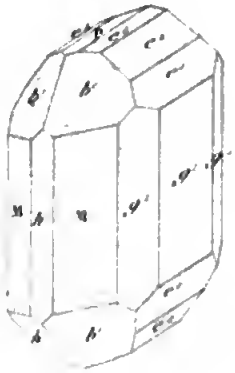

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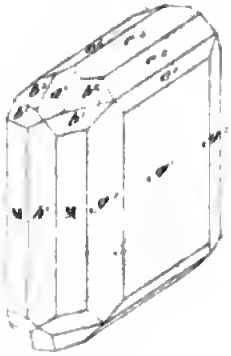

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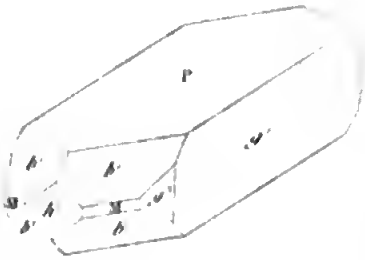

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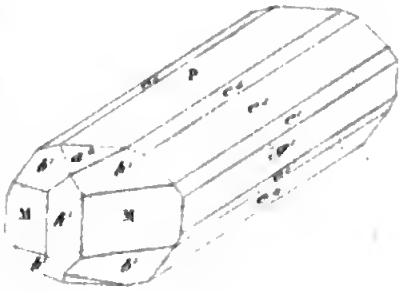
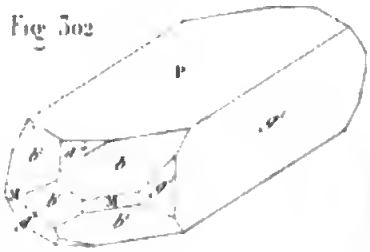


BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

PLOMB CARBONATÉ.

Fig 302



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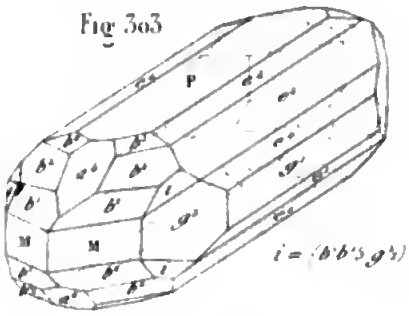

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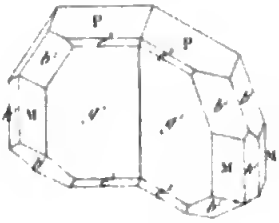

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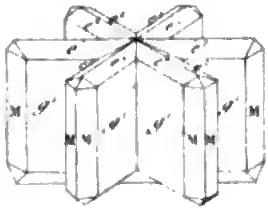
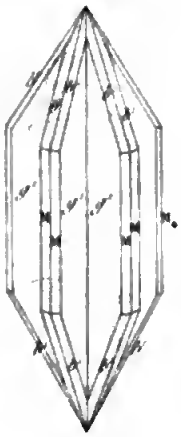


PLOMB SULFATO-TRICARBONATÉ

Fig 306



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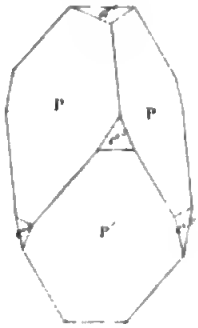
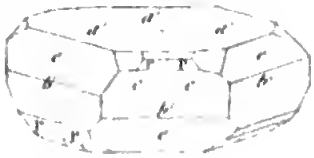


Fig 308

Fig 309



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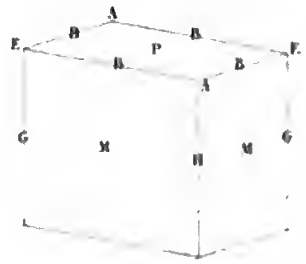
PLOMB SULFATE

Fig 310



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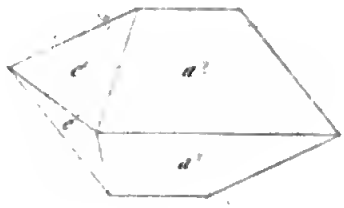

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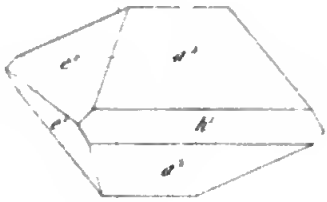


Fig 313

Fig 314

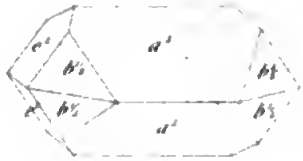


Fig 315

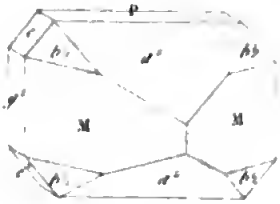
VITTORIO EMANUELE III
NAPOLI

PLOMB SULFATÉ

Fig 316.

Fig. 317.

Fig 318



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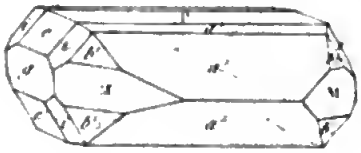

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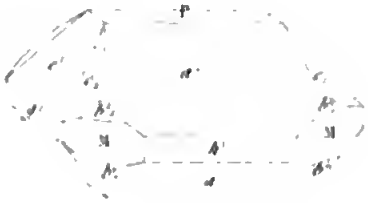

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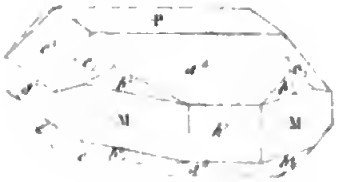

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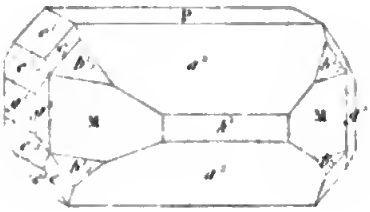
PLOMB SULFATÉ

Fig. 322

Fig. 323



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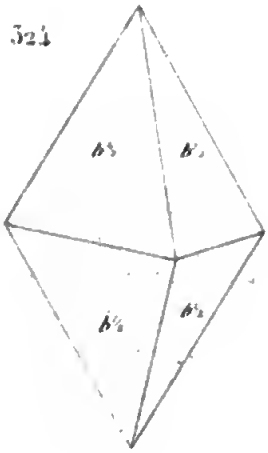

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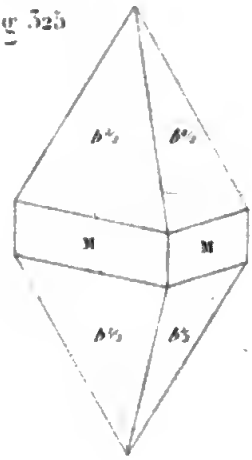

Fig. 326

Fig. 327

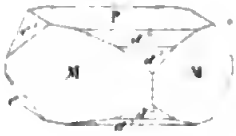

Fig. 328

Fig. 329

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PLOMB SULFATO CARBONATE CUPRIFÈRE

Fig 330

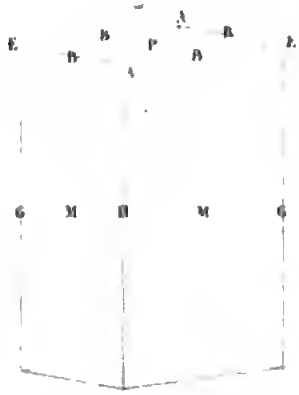
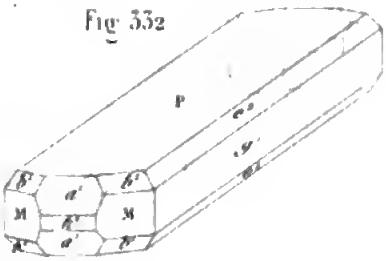


Fig 331

PLOMB SULFATÉ CUPRIFÈRE

Fig 332



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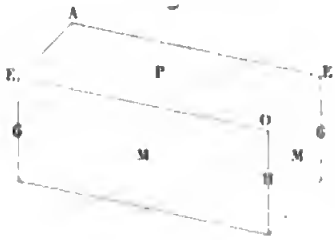

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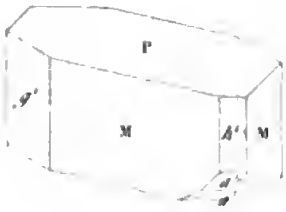
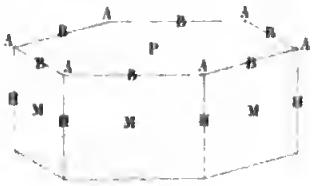


Fig 335

NAPOLI

PLOMB PHOSPHATÉ

Fig. 336



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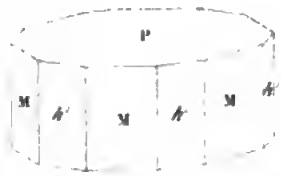

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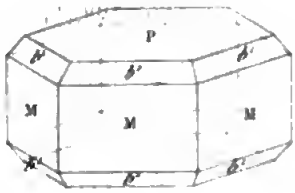

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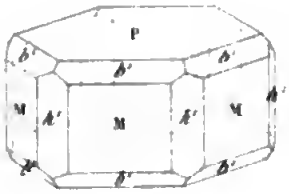
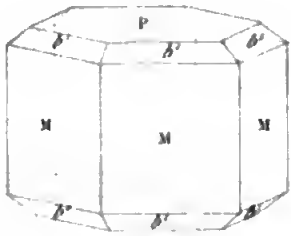


PLOMB ARSENIATÉ.

Fig. 340

Fig. 341



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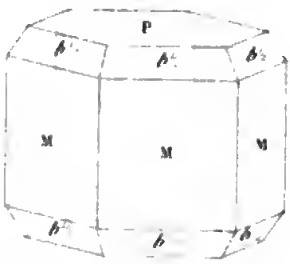
V. VITTORIO EM. NAPOLI

PLOMB ARSENIATÉ

Fig 342



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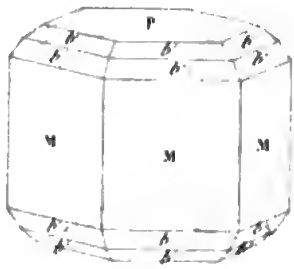

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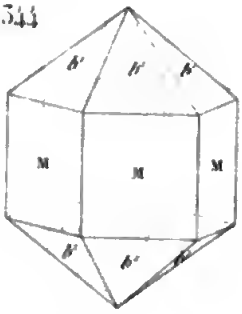

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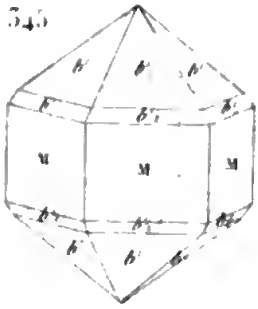
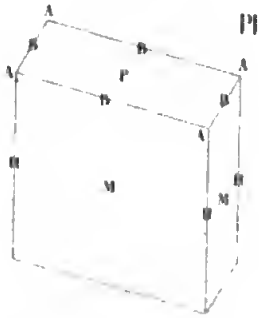


PLOMB CHLORO CARBONATÉ.

Fig 346.



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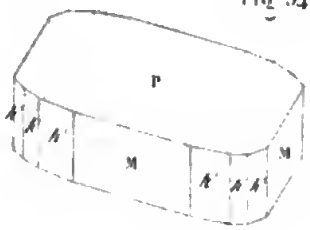
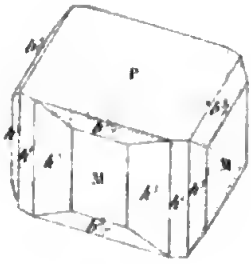


Fig 349

Fig 350



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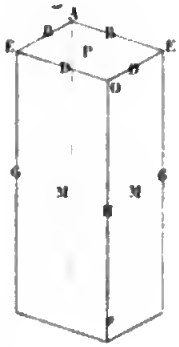
PLOMB CHROMATÉ.

Fig. 351



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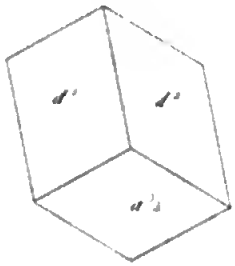
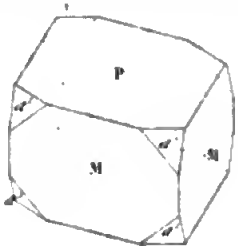


Fig. 348. PLOMB CHLORO CARBONATE



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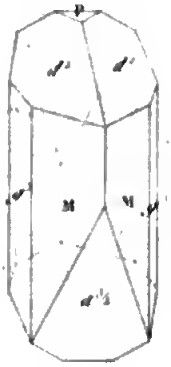

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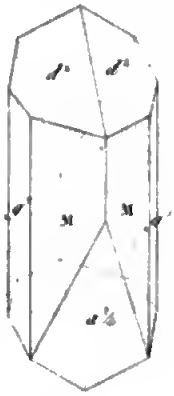
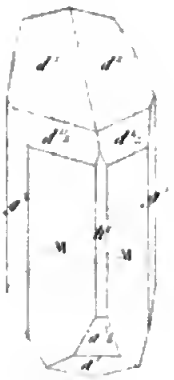


Fig. 355.

Fig. 356.



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PLOMB CHROMATÉ

Fig 357

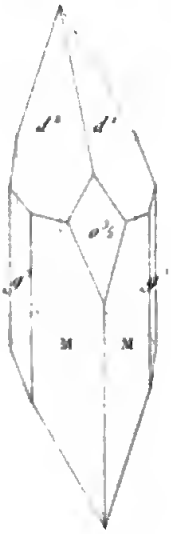


Fig 358

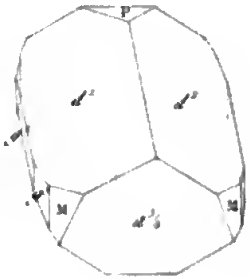
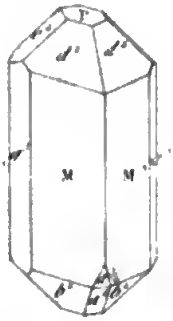


Fig 359

Fig 360

Fig 361



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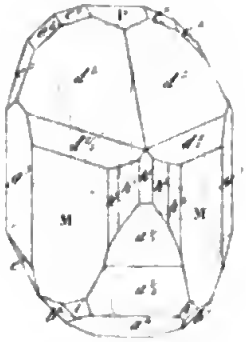

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Fig. 363

Fig. 364

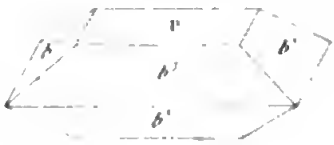
PLOMB MOLYBDATÉ

Fig. 365

Fig. 366

Fig. 367

Fig. 368



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PLOMB MOLYBDATÉ

Fig. 369

Fig. 370

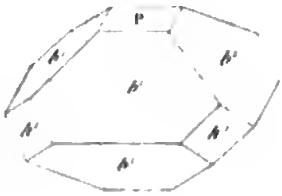

Fig. 371.

Fig. 372

PLOMB TUNGSTATÉ

Fig. 373

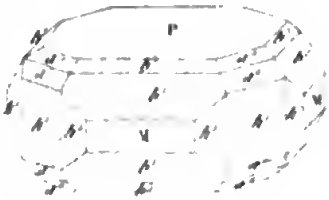

Fig. 374

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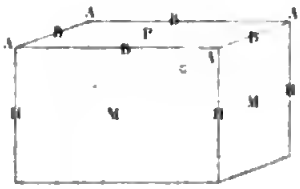
Fig. 375



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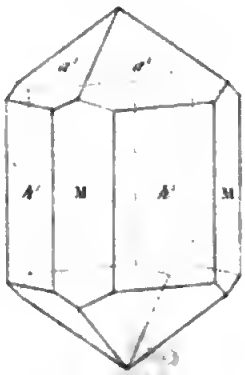

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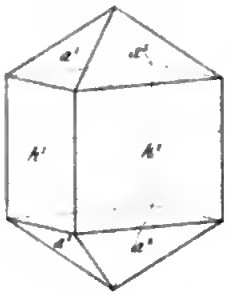

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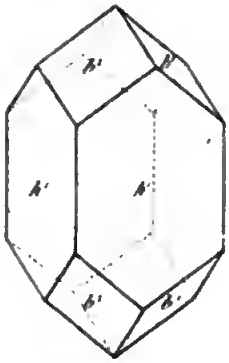

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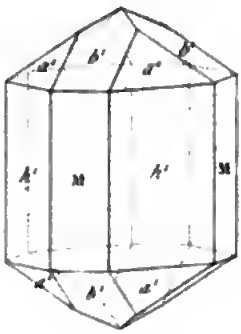

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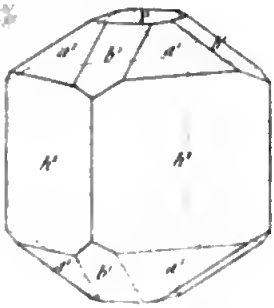

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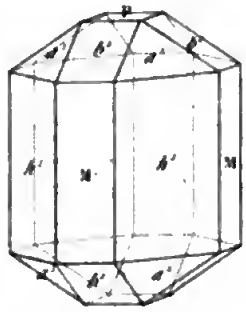

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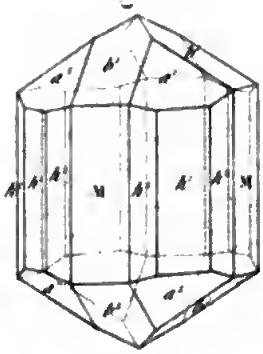

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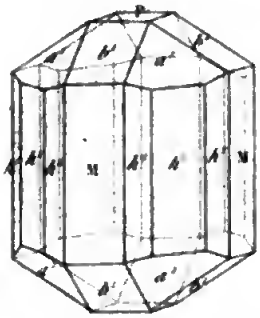

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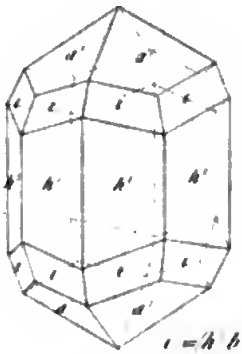

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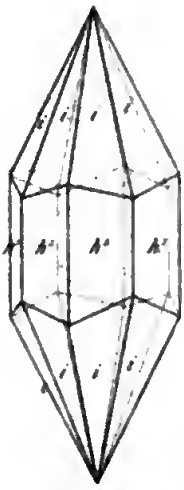

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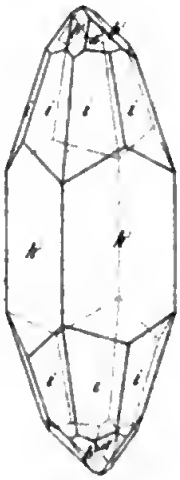

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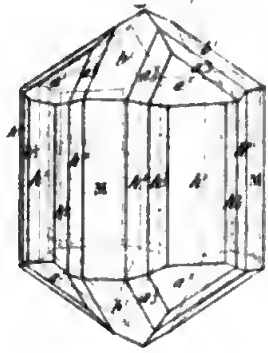
Fig. 387.



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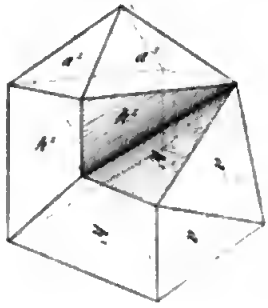

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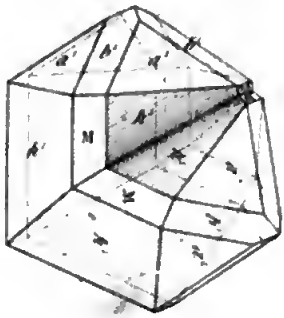

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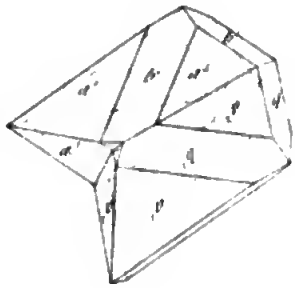

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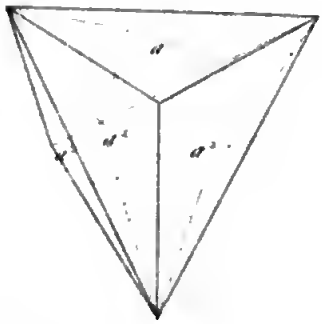
Fig. 391



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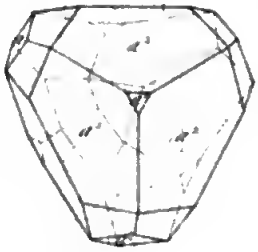

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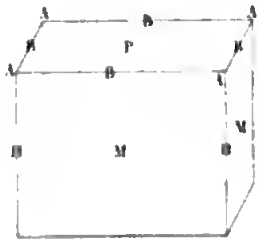
Fig 393.



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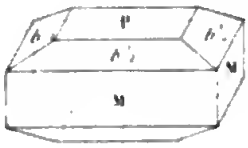

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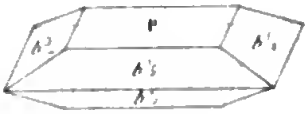

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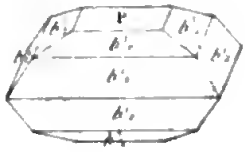

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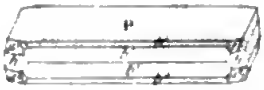

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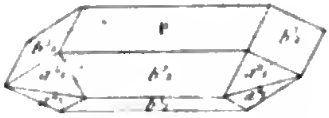

Fig 399

Fig 400

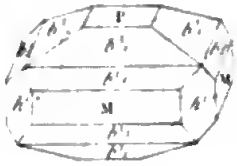

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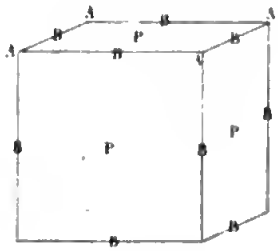
Fig. 401



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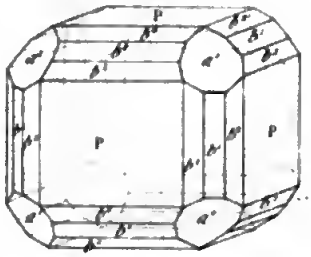

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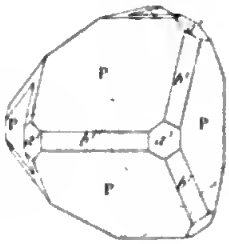

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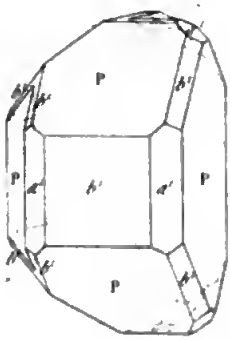

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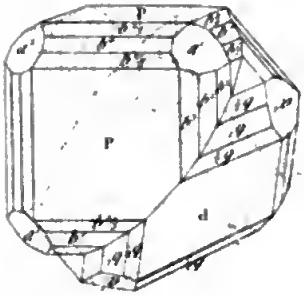

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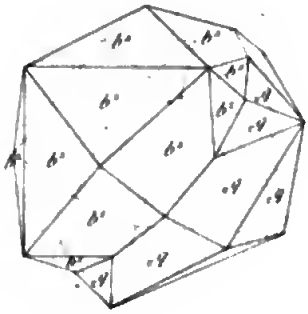

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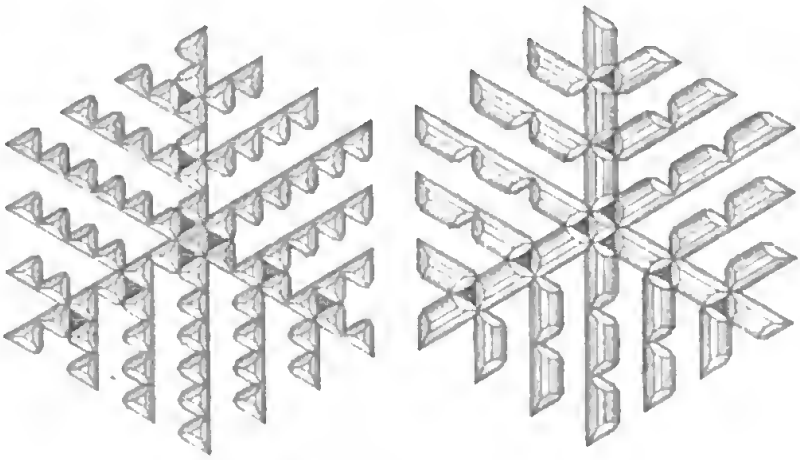
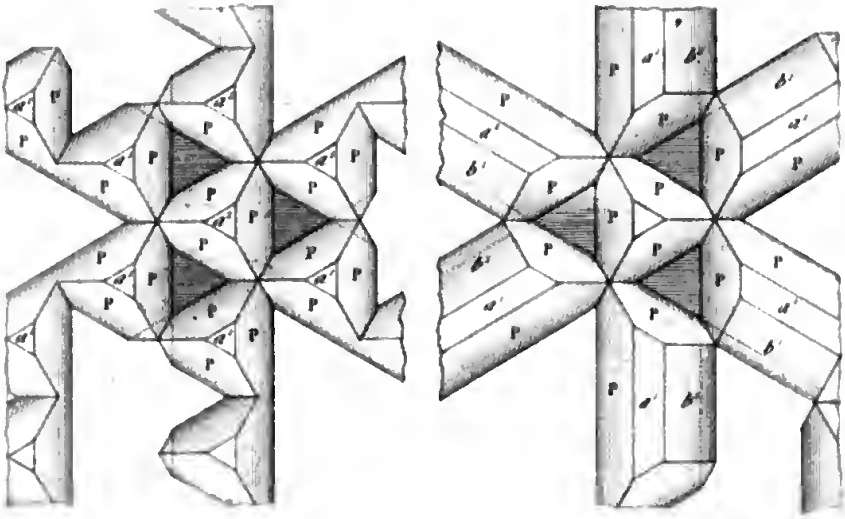
Fig 407. Fig 408



GROUPEMENT RÉGULIER DES CRISTAUX DE CUIVRE NATIF

Fig 407 bis Fig 408 bis



DÉTAIL MONTRANT LA POSITION RELATIVE DES CRISTAUX ACCOLÉS

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

CUIVRE SULFURÉ.

Fig. 409

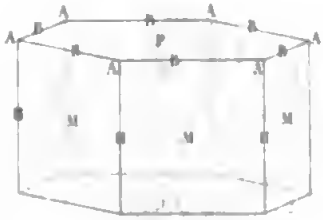
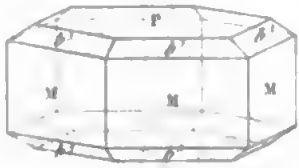


Fig. 410



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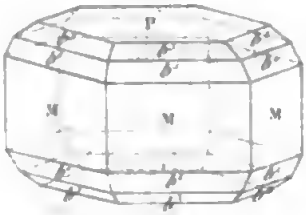

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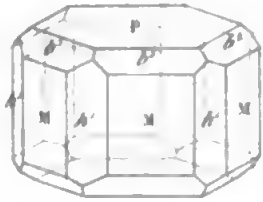

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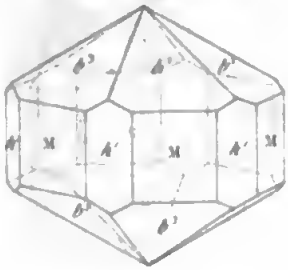

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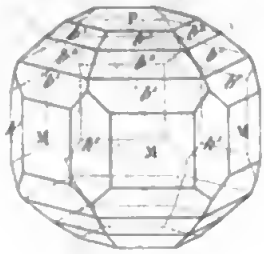

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Fig 415

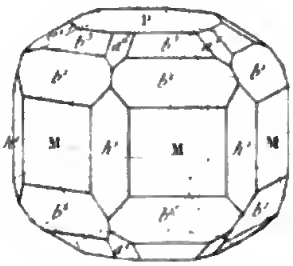
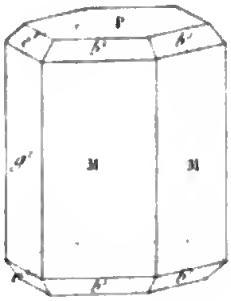


Fig 416



PHILLIPSITE

Fig 417

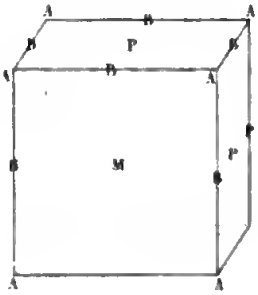


Fig 418

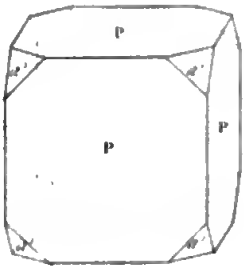


Fig 419

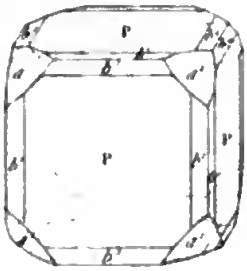
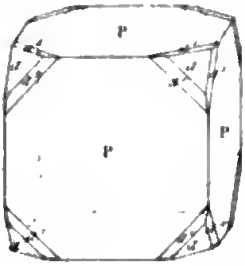


Fig 420



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

CUIVRE PYRITEUX

Fig 421

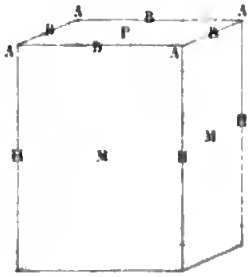


Fig 422

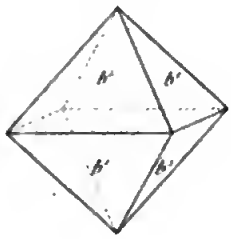
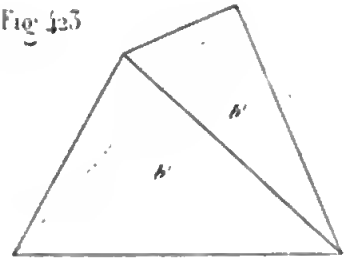


Fig 423



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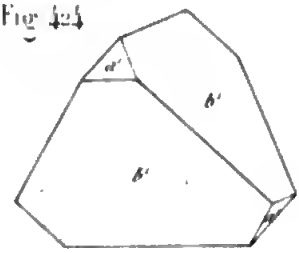

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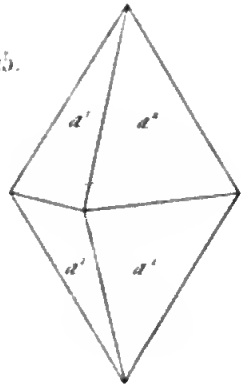

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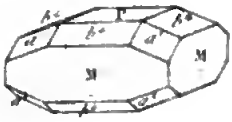
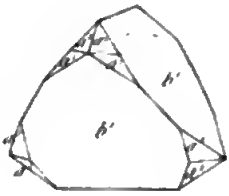


Fig 427



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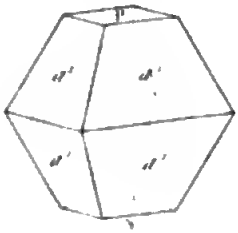

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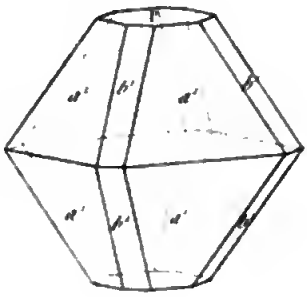
Fig 429



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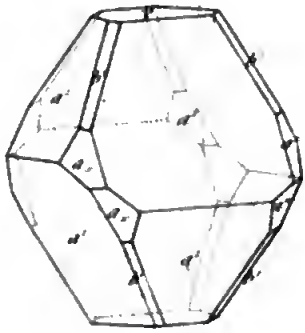
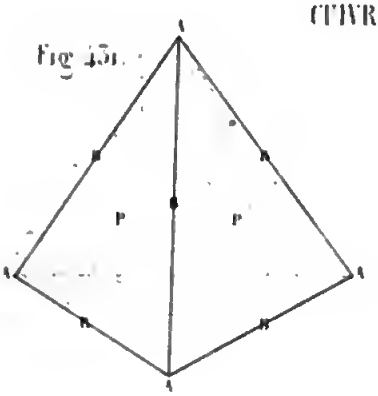


CUIVRE GRIS.

Fig 431.



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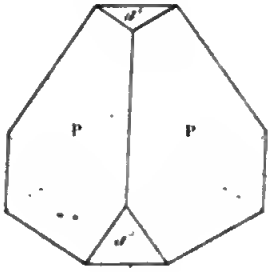

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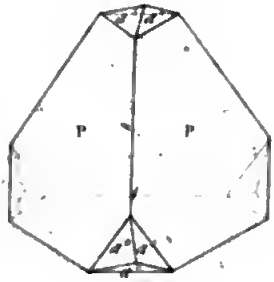

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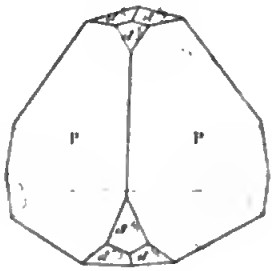

BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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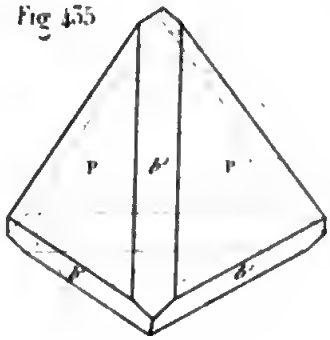
Fig 435



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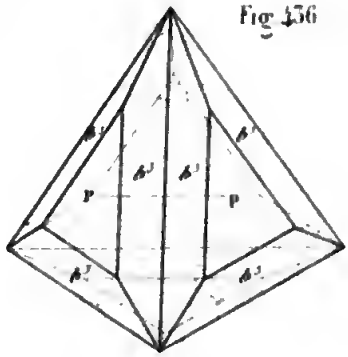

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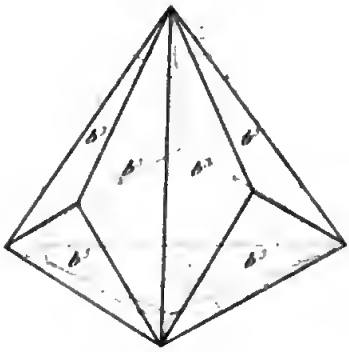

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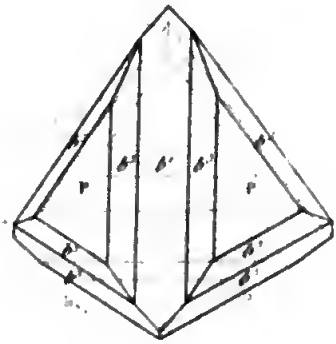


Fig 439

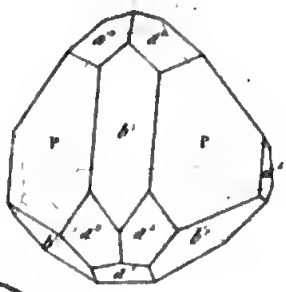
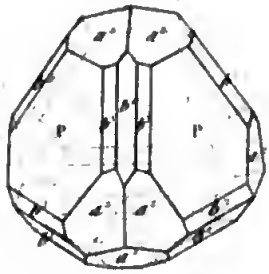


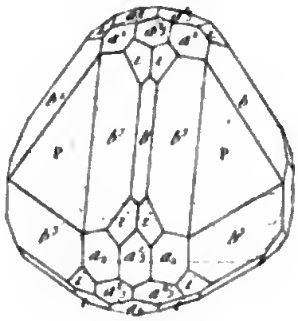
Fig 440



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

CUIVRE GRIS.

Fig. 441



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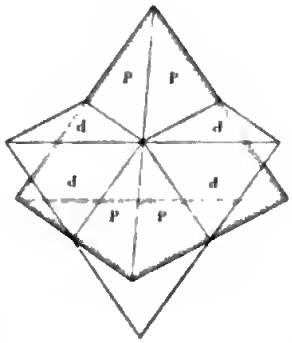

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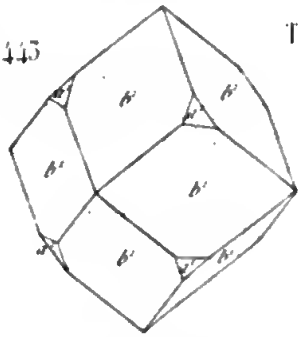
Fig. 443



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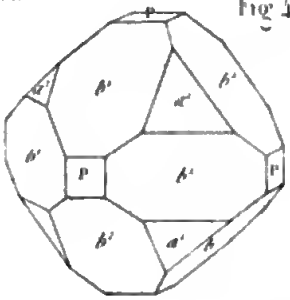

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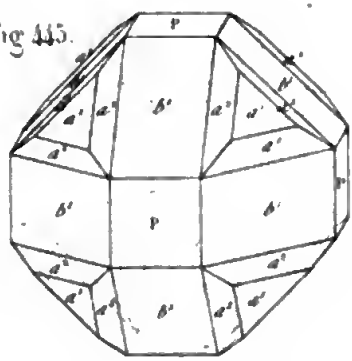

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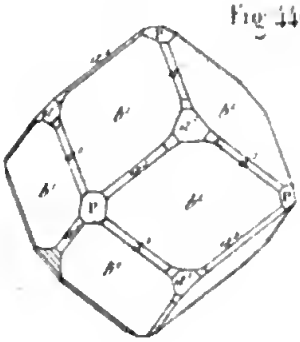


CUIVRE OXIDULÉ

Fig. 447

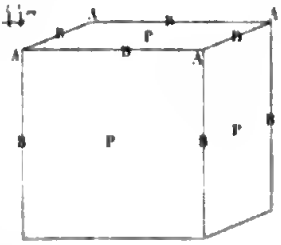
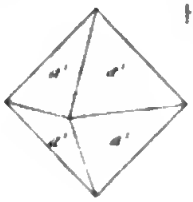


Fig. 448



VITTORIO EMANUELE
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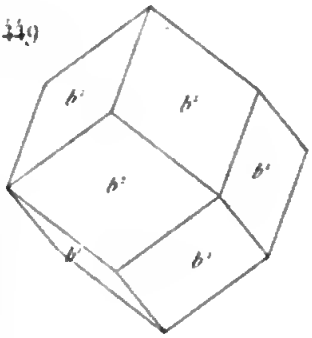
Fig 449



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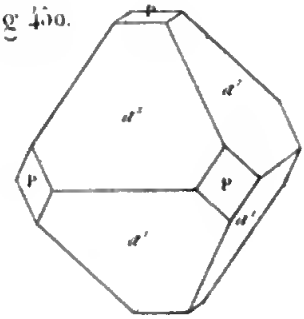


Fig 451

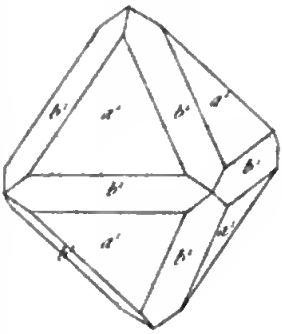
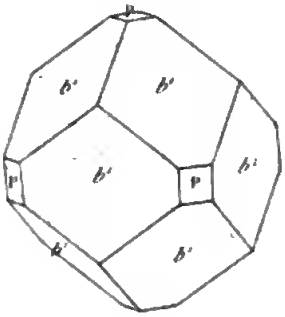


Fig 452



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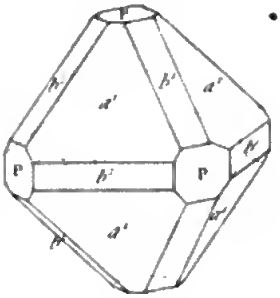

Fig 454

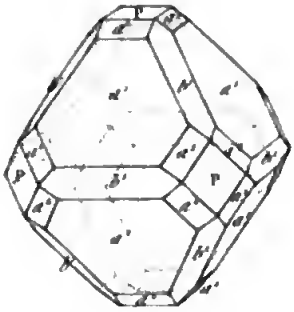

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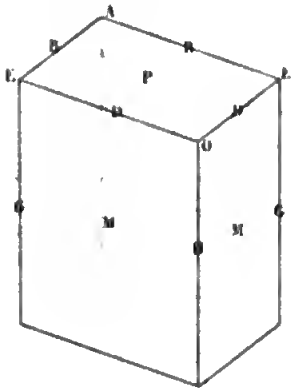
Fig 455



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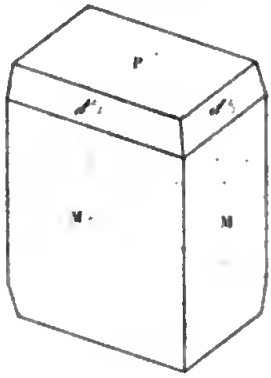

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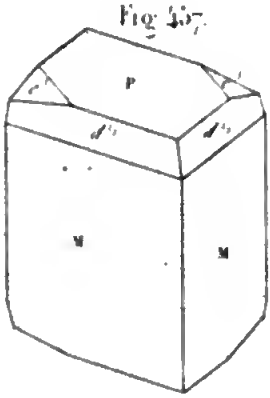

Fig 458

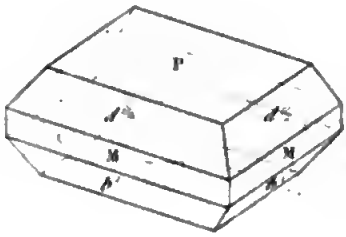

Fig 459

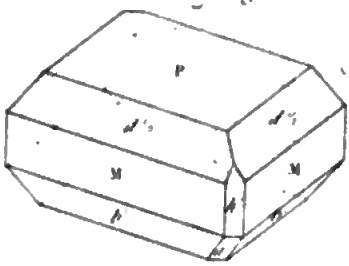

Fig 460

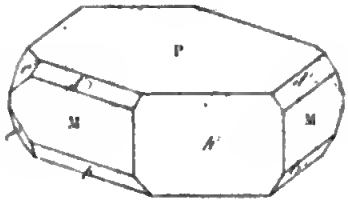

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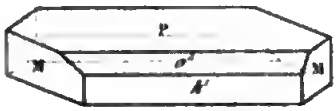
Fig 461



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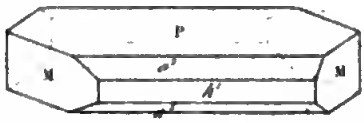
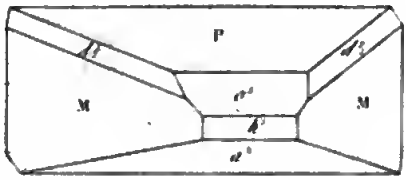


Fig 463



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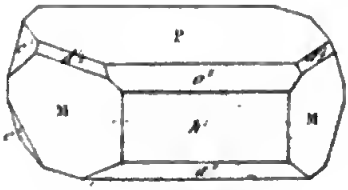

Fig. 465.

Fig 466.

Fig 467

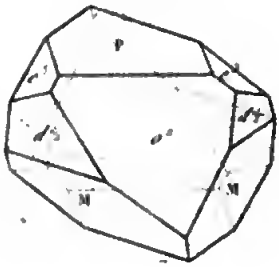

Fig 468

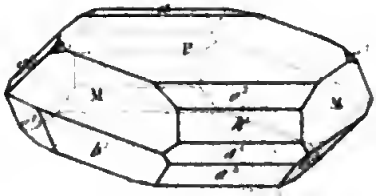

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Fig 469

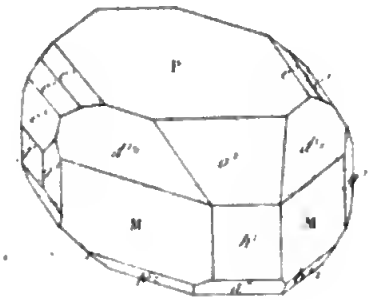

Fig 470

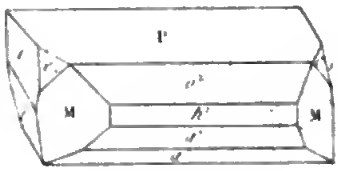

Fig 471

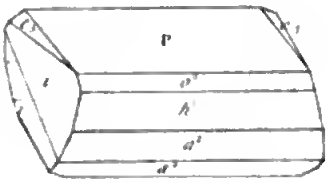

Fig 472

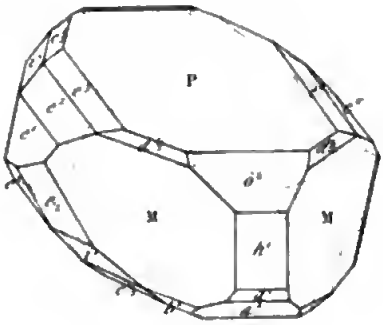

Fig 473

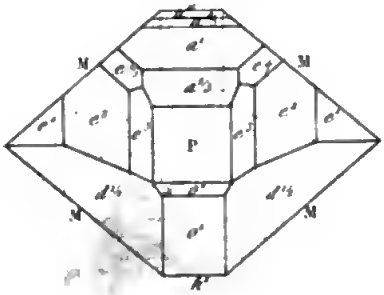

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Fig 474

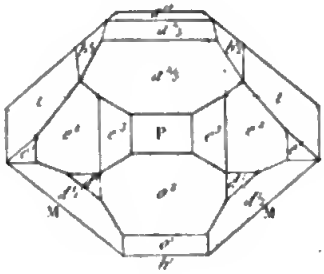

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Fig 475.

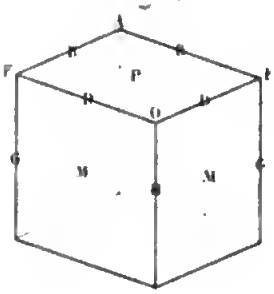
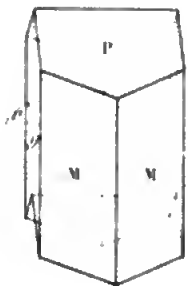


Fig 476



CUIVRE CHLORURÉ

Fig 477

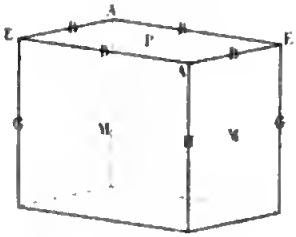
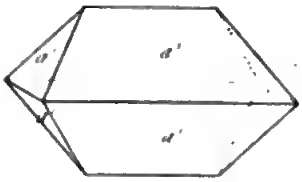


Fig 478



CUIVRE PHOSPHATE

Fig 480

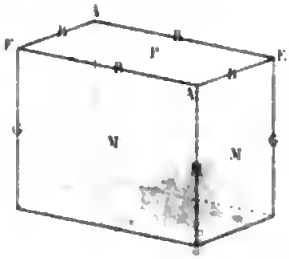
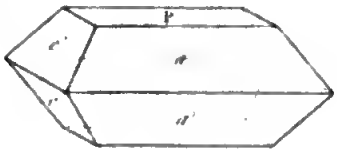


Fig 479



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

CUIVRE PHOSPHATE

Fig 481

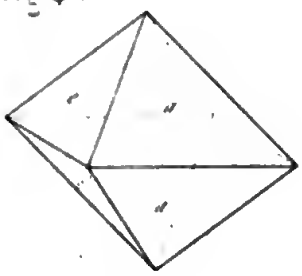
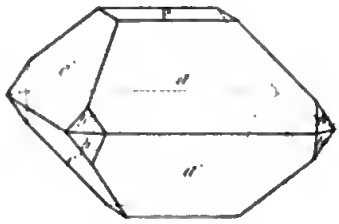


Fig 482



CUIVRE HYDRO-PHOSPHATE

Fig 483

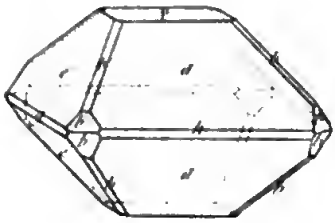


Fig 484

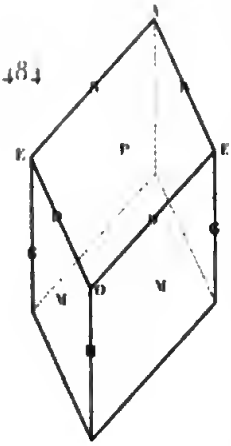


Fig 485

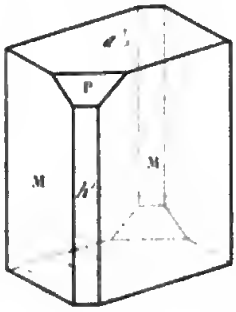
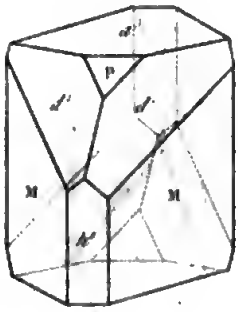


Fig 486



F. VITTORIO EMANUELE II
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OLIVÉNITE

Fig. 487

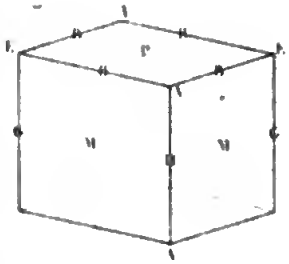


Fig. 488

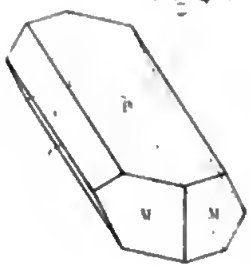


Fig. 489

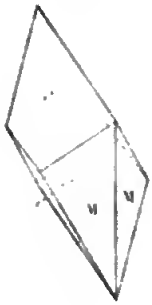
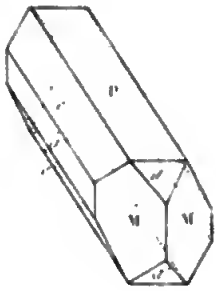


Fig. 490



ERINITE

Fig. 491

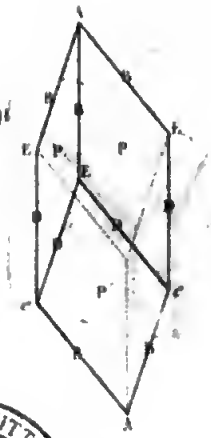


Fig. 492

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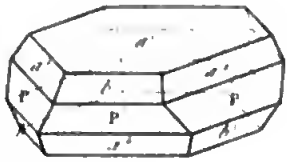
ERINITE

Fig 493

Fig 494



LIROCONITE

Fig 495

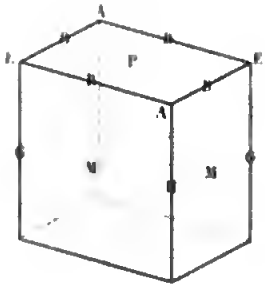
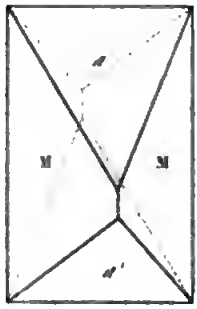


Fig 496



APHANESE

Fig 497

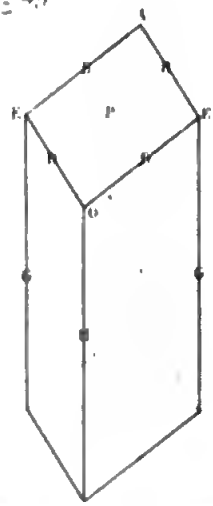
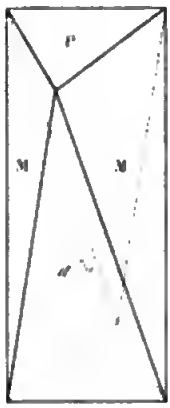
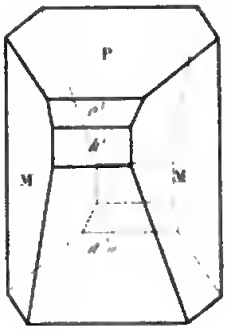


Fig 498



VITTORIO EMANUELE III
TOLI

Fig. 499



EUCHROITE.

Fig. 500

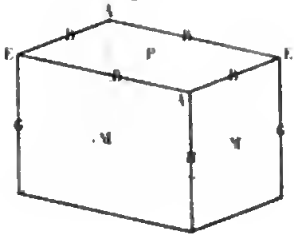
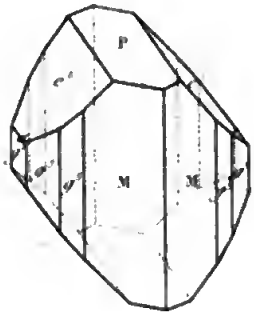


Fig. 501



CUIVRE DIOPTASE.

Fig. 502

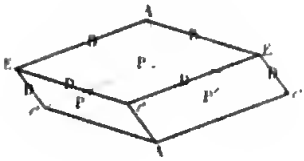


Fig. 503

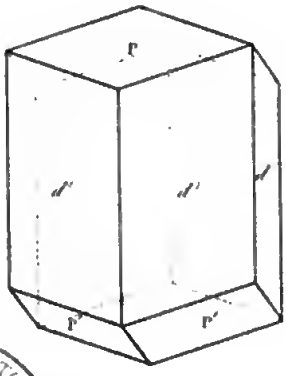
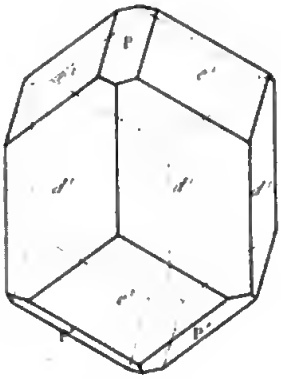


Fig. 504



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BIBLIOTECA NAZ. VITTORIO EMANUELE III

BROCHANTITE

Fig. 505

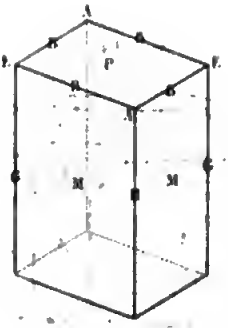
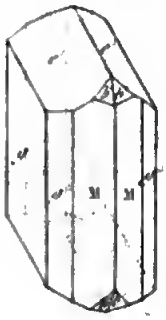


Fig. 506

Fig. 507



ARGENT NATIF

Fig. 508

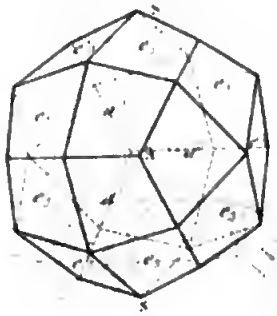


Fig. 509

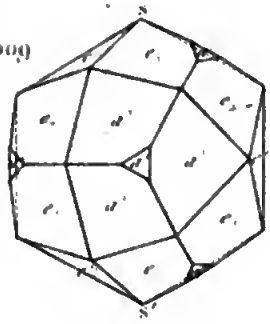
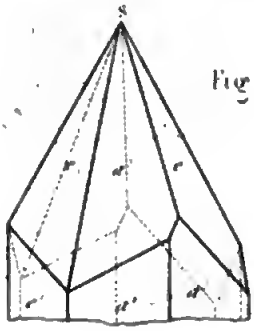


Fig. 510



ARGENT AMALGAME

Fig. 511

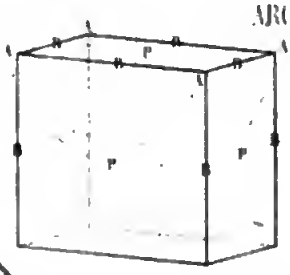
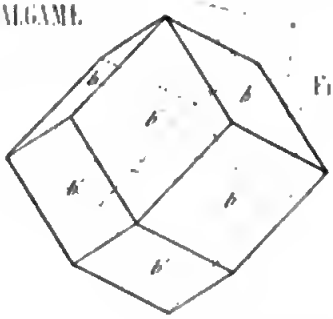


Fig. 512.



LITTORIO EMANUELE III

ARGENT AMALGAME

Fig. 513

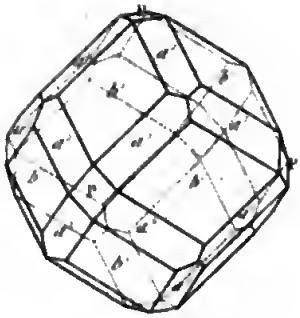


Fig. 514

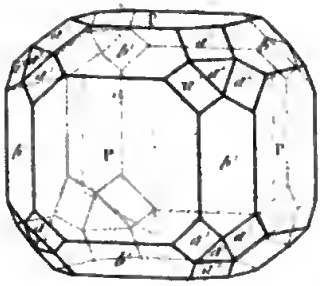
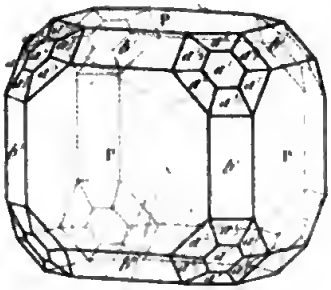


Fig. 515.



ARGENT ANTIMONIAL

Fig. 516

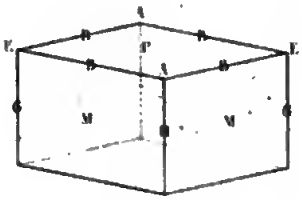


Fig. 517

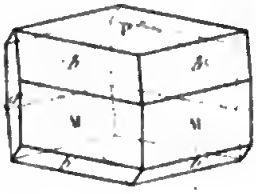
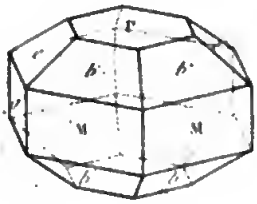


Fig. 518



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ARGENT SULFURÉ

Fig 519

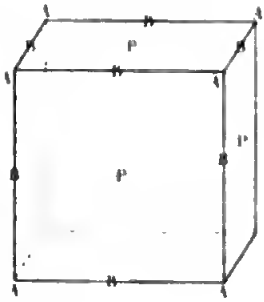


Fig 520

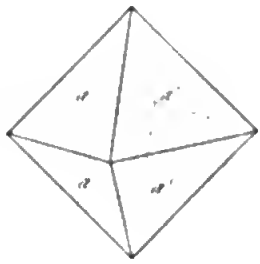


Fig 521

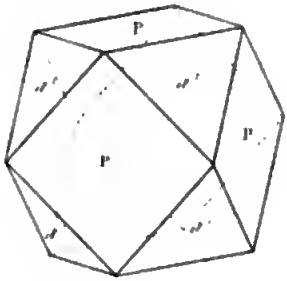


Fig 522

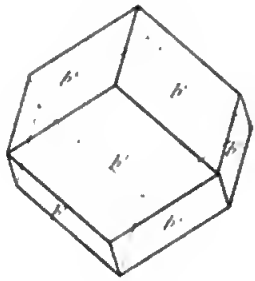


Fig 523.

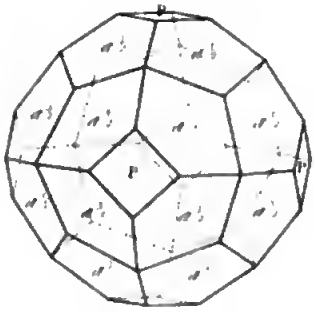
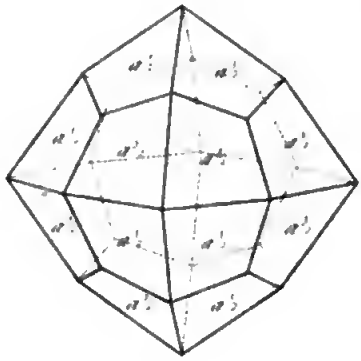


Fig 524



ARGENT SULFURÉ

Fig. 525

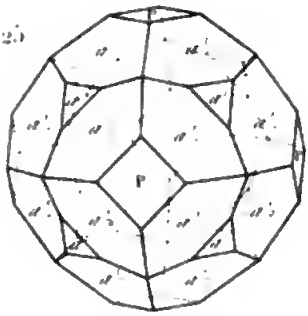


Fig. 526

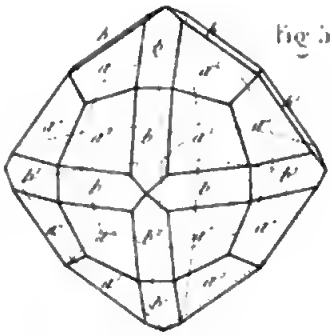


Fig. 527 ARGENT SULFURÉ FRAGILE

SPRODGLASERZ

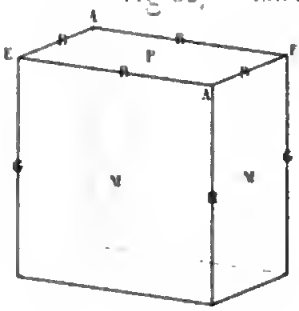


Fig. 528

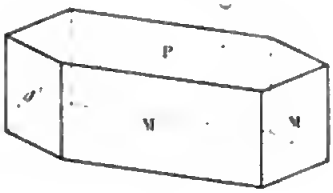


Fig. 529

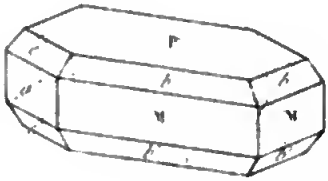


Fig. 530

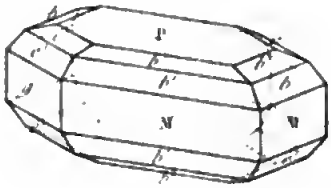


Fig. 531

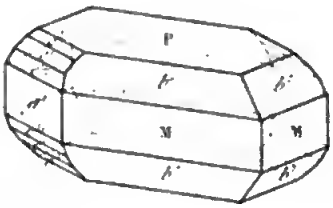
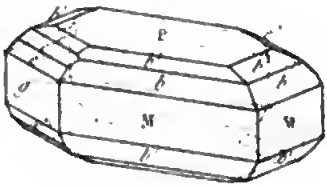


Fig. 532



NAPOLI

ARGENT SULFURÉ ANTIMONIFÈRE

SCHRINGLASERZ

Fig. 553.

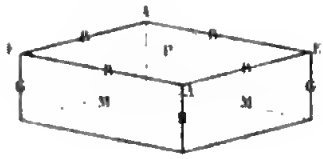


Fig. 554

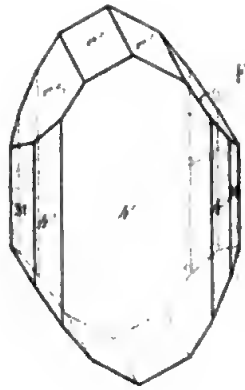
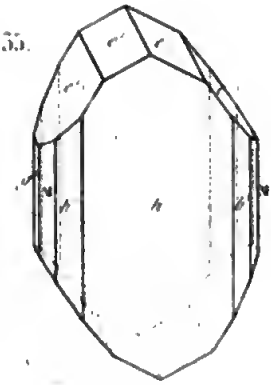


Fig. 555.



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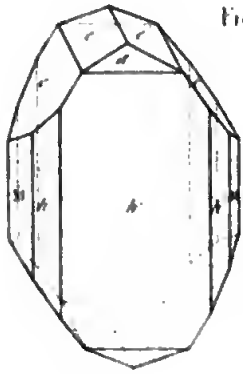

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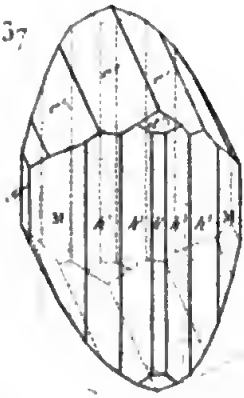

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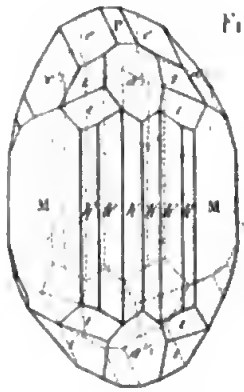

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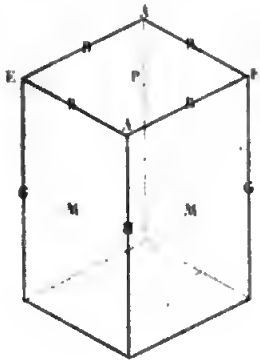
Fig. 539



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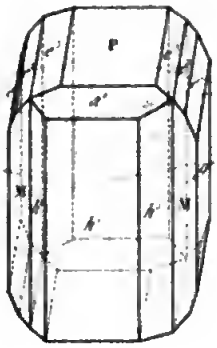
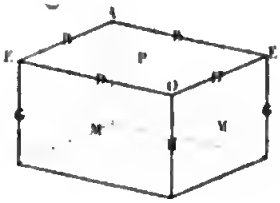


STERNBERGITE

Fig. 541



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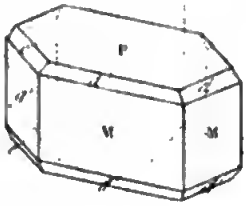

ARGENT ANTIMONIÉ SULFURÉ

ARGENT ROUGE

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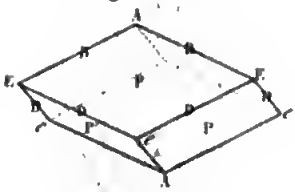


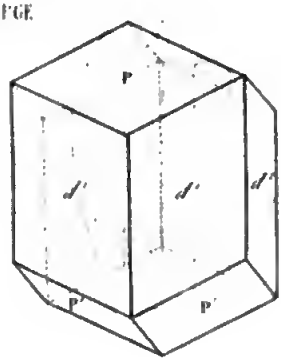
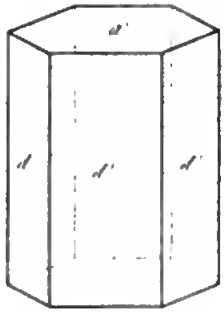


Fig. 544

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

ARGENT ANTIMONIÉ SULFURÉ

Fig 545



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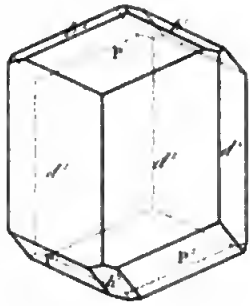

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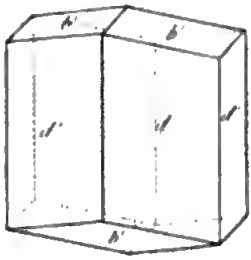

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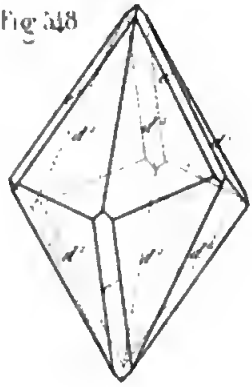

Fig 549

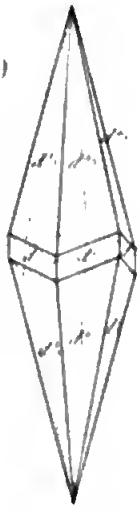

Fig 550

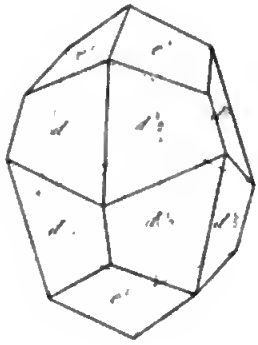

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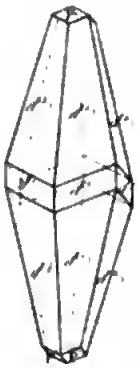
Fig. 551



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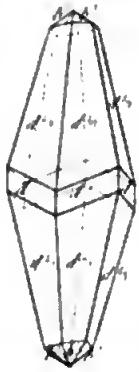

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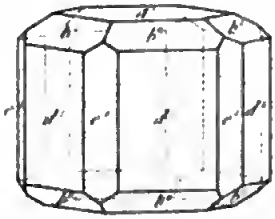

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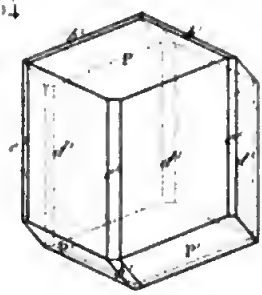

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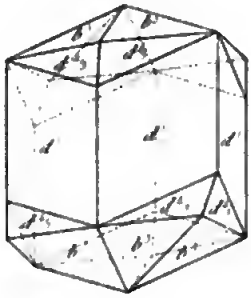

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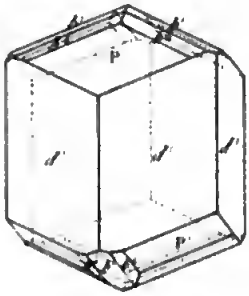
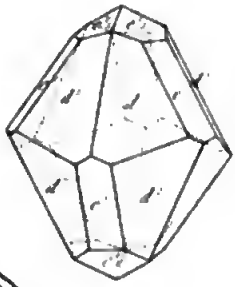


Fig. 557



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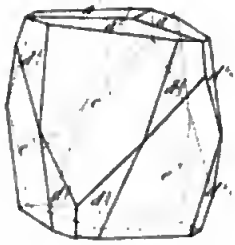

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BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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Fig 559

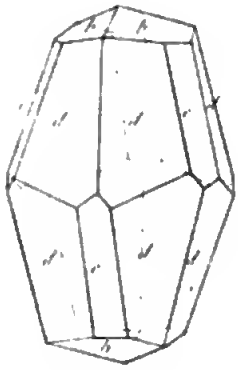


Fig 560

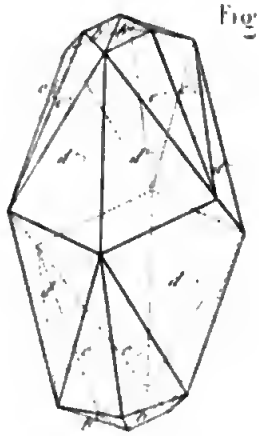
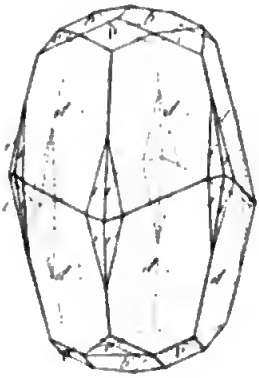


Fig 561



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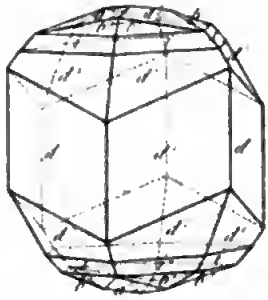

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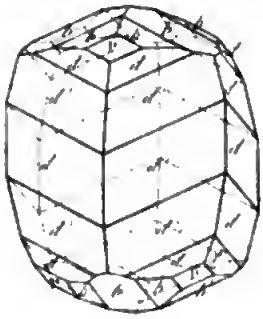
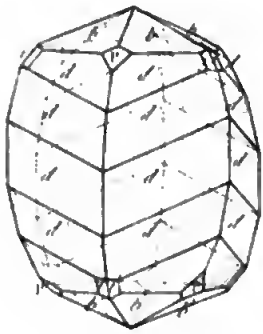


Fig 564



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
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Fig. 565.

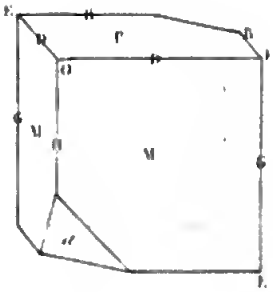

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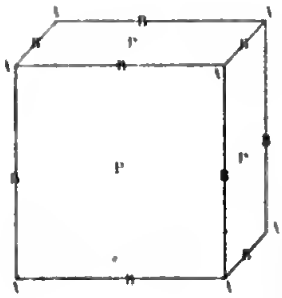
Fig. 566.



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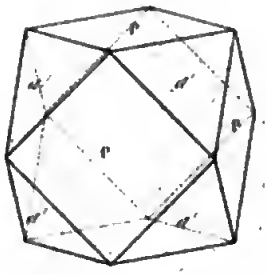

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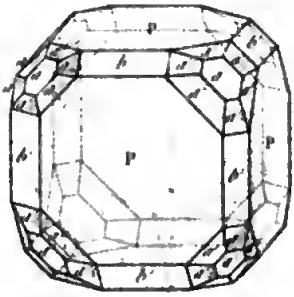

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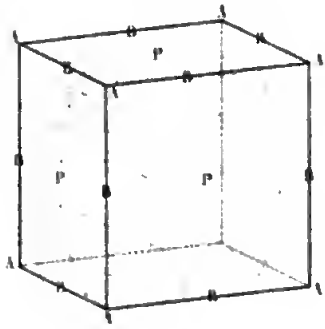
Fig. 569.



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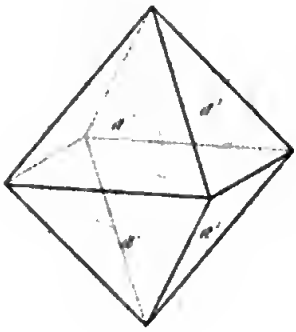

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Fig 571

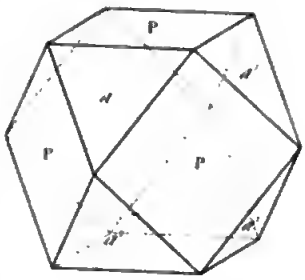


Fig 572

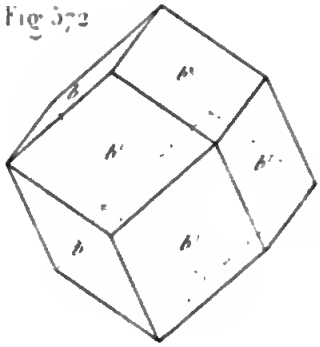


Fig 573

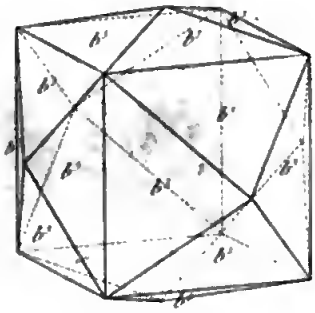
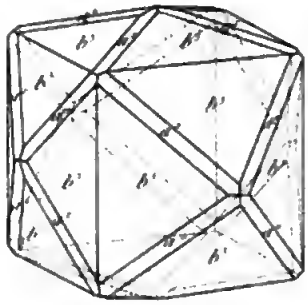


Fig 574



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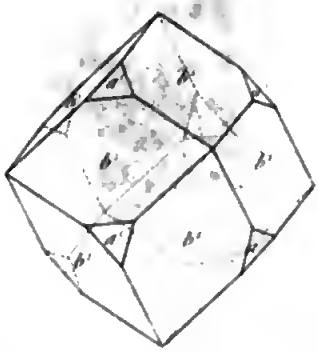

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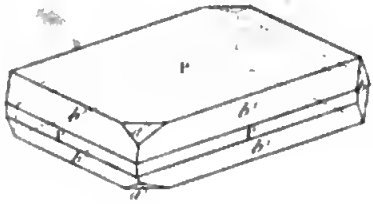

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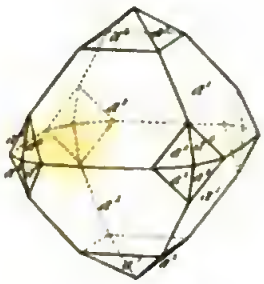
Fig 577



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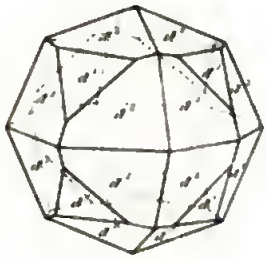

Fig 579

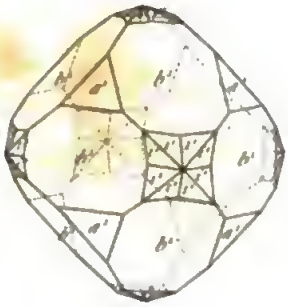

Fig 580

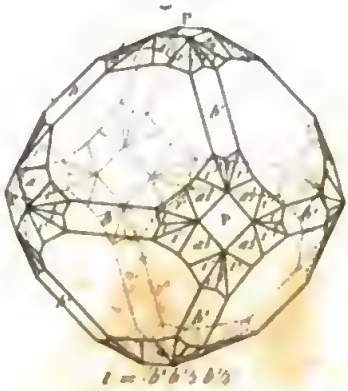

Fig 581

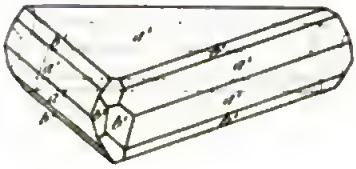

Fig 582

IRIDIUM NATIF.

Fig 583.

Fig 584.

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BIBLIOTECA NAZIONALE VITTORIO EMANUELE III NAPOLI

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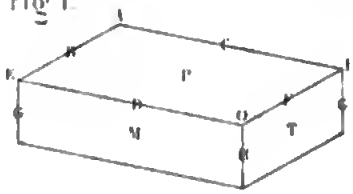
Fig 1.



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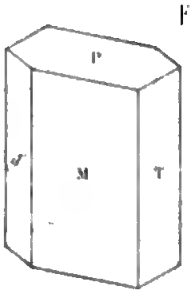

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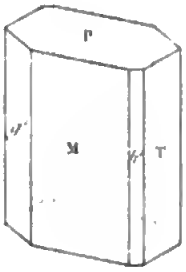

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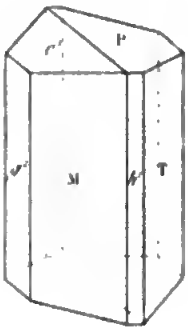
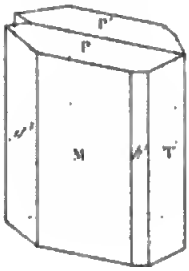


Fig 5



ANDALOUSITE.

Fig 6.

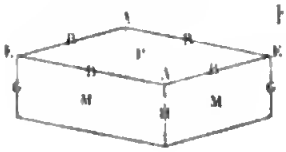


Fig 7

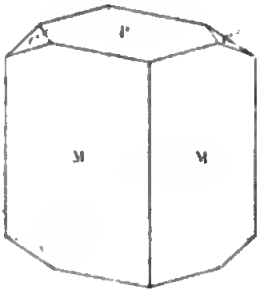
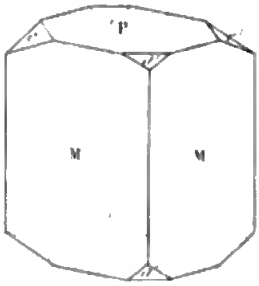


Fig 8



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ANDALOUSITE.

Fig. 9

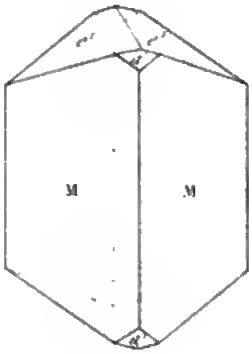


Fig. 10.

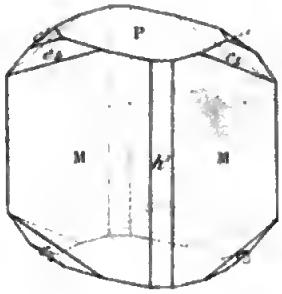
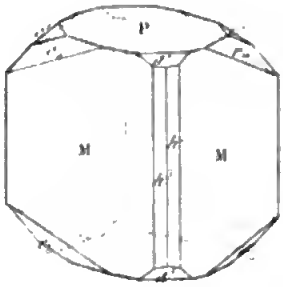


Fig. 11



MACLES

Fig. 12

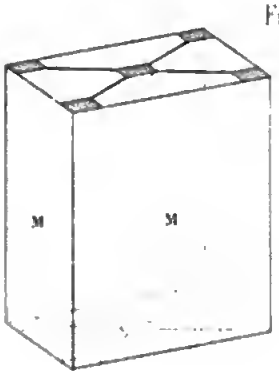


Fig. 13.

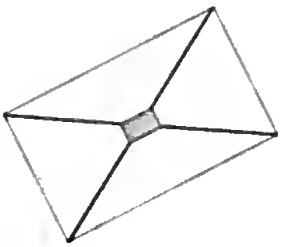
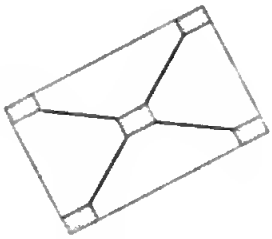


Fig. 12 bis



VITTORIO EMANUELE III
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MACLES.

Fig 15.

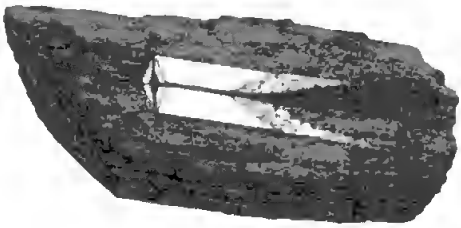
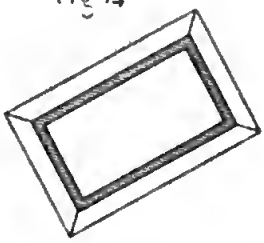


Fig 14



STAUROTIDE.

Fig 16

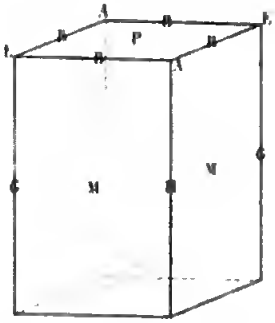


Fig 17.

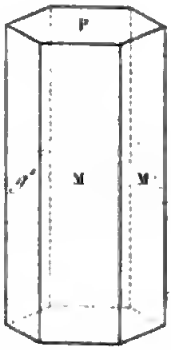


Fig 18

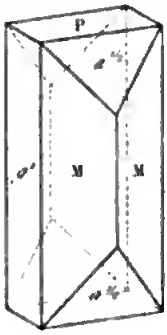


Fig 19.

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STAUROTIDE.

Fig 20.

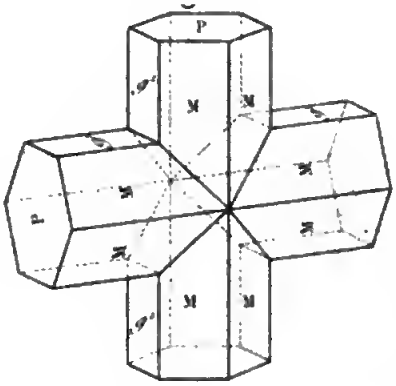
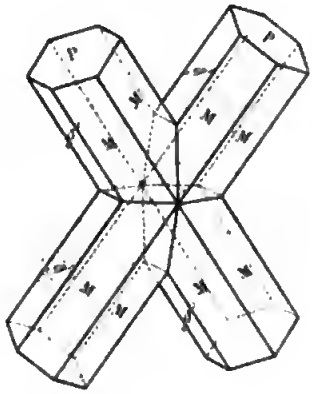


Fig 21.



GRENATS.

Fig 22.

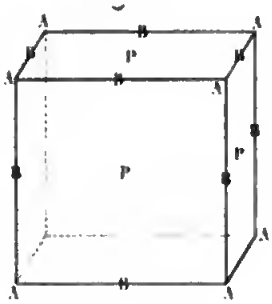


Fig 23

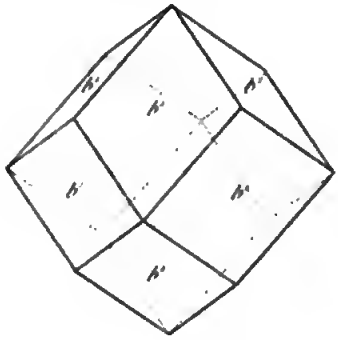


Fig 24

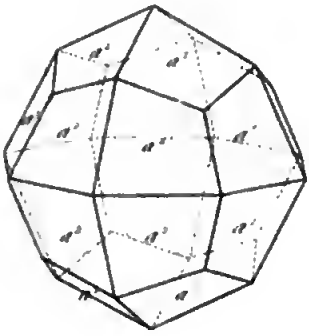
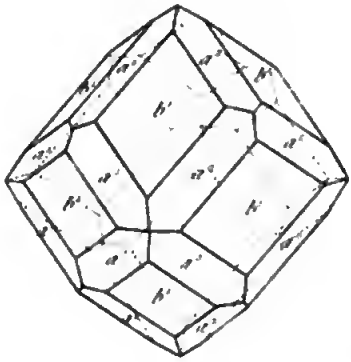


Fig 25



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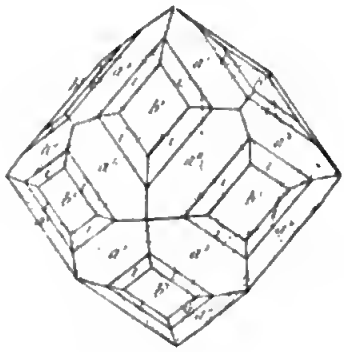
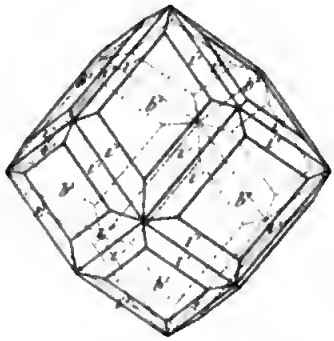
GRENATS.

Fig 26



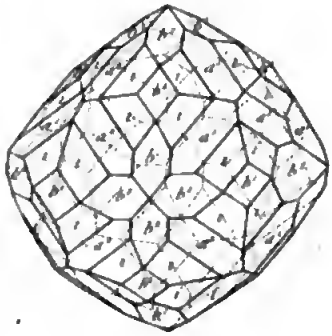
$t = (b^1 b^{\frac{1}{2}} b^{\frac{1}{3}})$

Fig 27



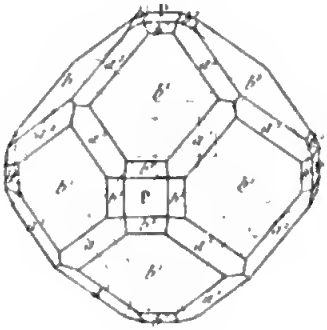
$t = (b^1 b^{\frac{1}{2}} b^{\frac{1}{3}})$

Fig 28



$t = (b^1 b^{\frac{1}{2}} b^{\frac{1}{3}})$

Fig 29



IDOCRASE

Fig 50.

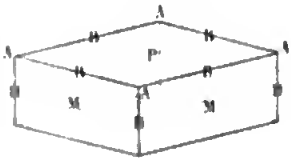


Fig 51.

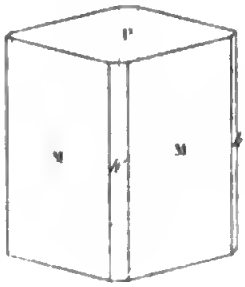


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Fig. 32.

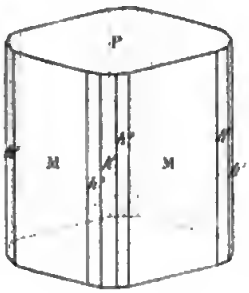

Fig. 33.

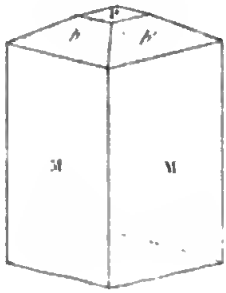

Fig. 34

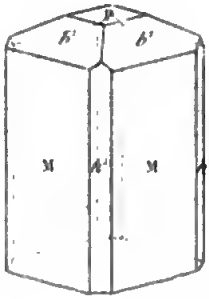

Fig. 35

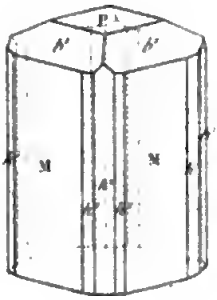

Fig. 36

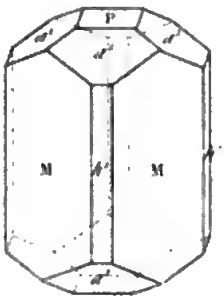

Fig. 37.

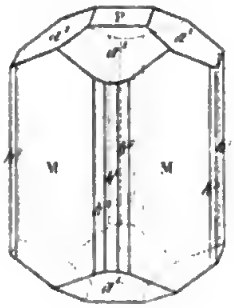

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Fig 38

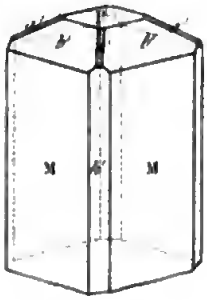


Fig 39

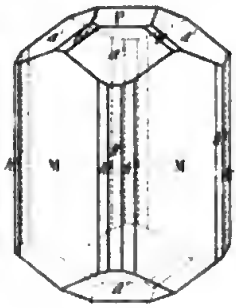


Fig 40.

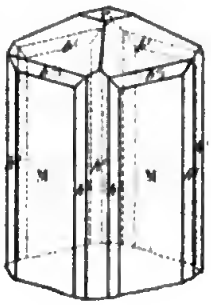


Fig 41

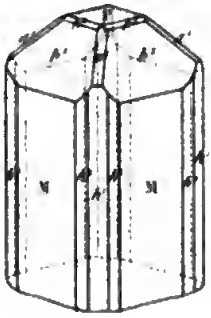


Fig 42.

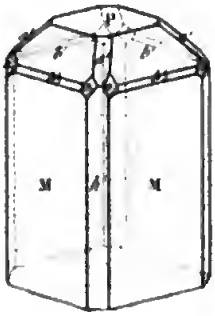
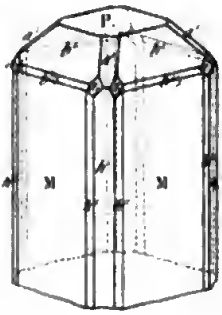


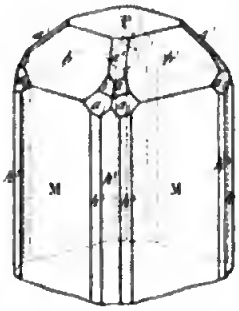
Fig 43.



NAPOLI

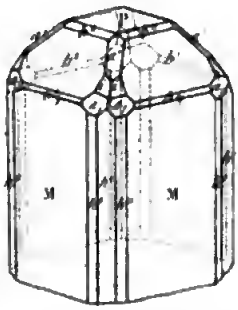
IDOCRASE

Fig. 44



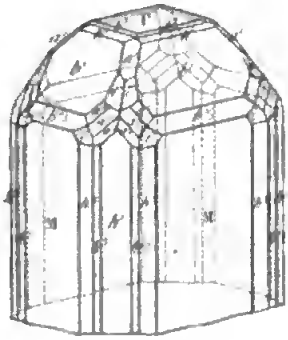
$t = (h^1 h^{1/2} h^{1/3})$

Fig. 45.



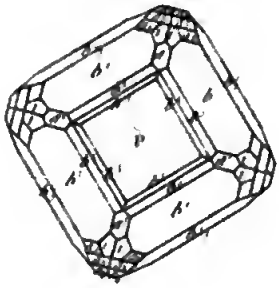
$t = (h\ h^1 h^{1/3})$

Fig. 46.



$t = (h^1 h^{1/2} h^{1/3})$
$t' = (h^{1/2} h^{1/3} h^1)$

Fig. 46 bis



BUCKLANDITE

Fig. 47.

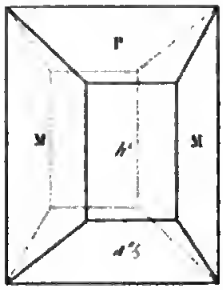
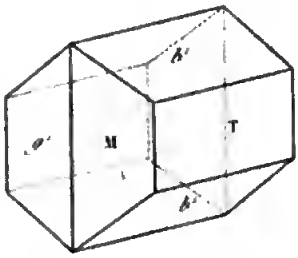


Fig. 48.



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EPIDOTE.

Fig. 49

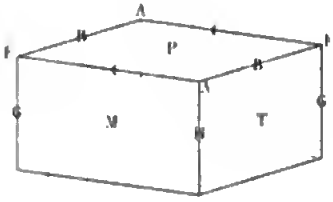


Fig. 50

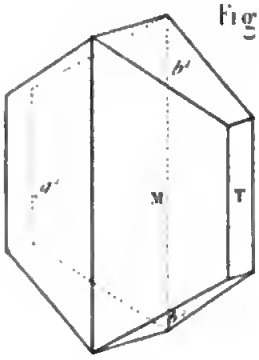


Fig. 51

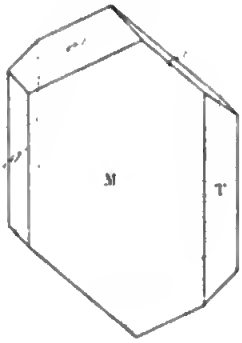


Fig. 52

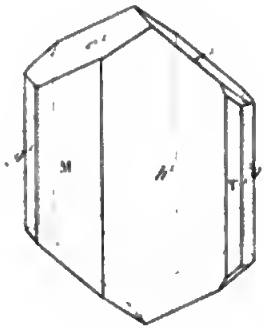


Fig. 53

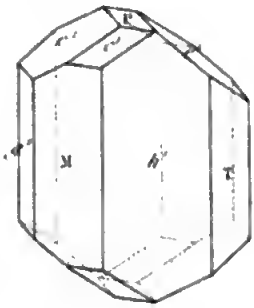
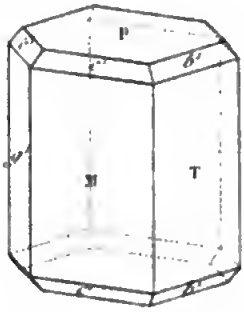


Fig. 54.



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III"
NAPOLI

EPIDOTE.

Fig. 55

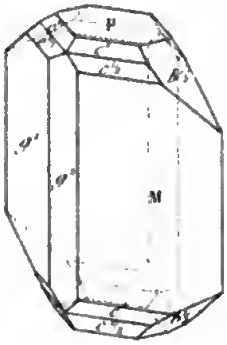
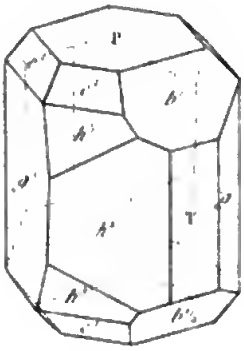


Fig. 56.



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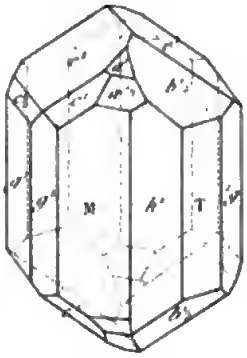
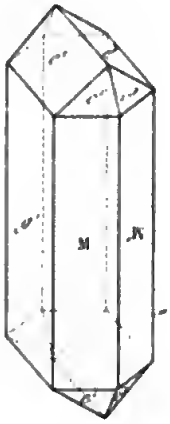


Fig. 58



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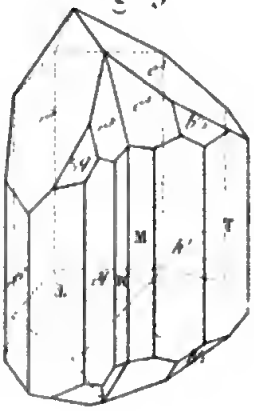

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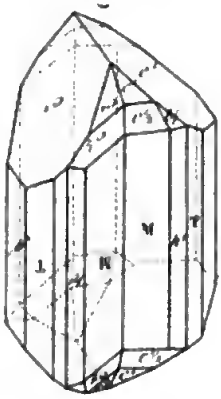

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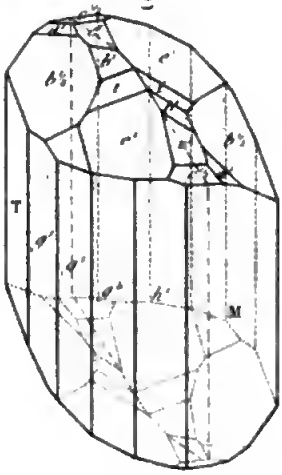
Fig 61



$t = (b^2 c^1 h^0)$

Fig 62

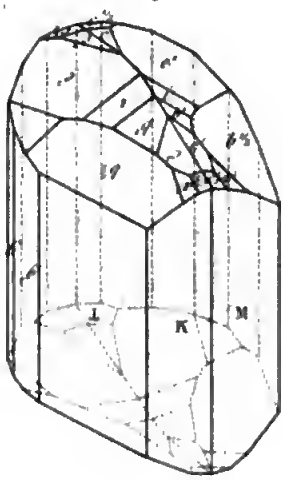


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Fig 63

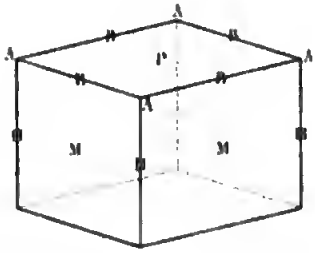

Fig 64

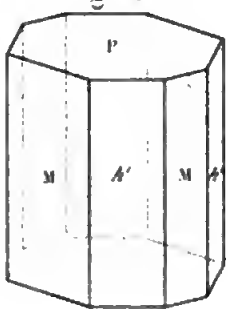

Fig 65.

Fig 66.

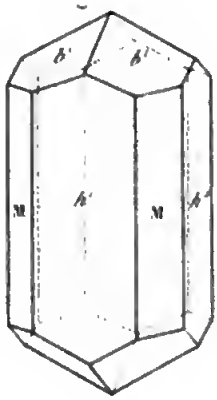

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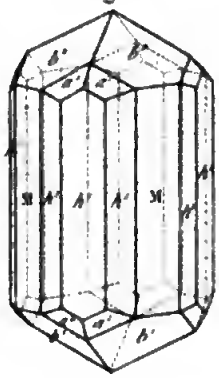
Fig. 67.



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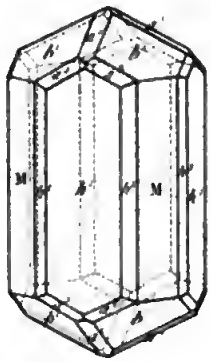

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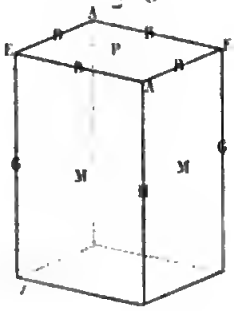
Fig. 69



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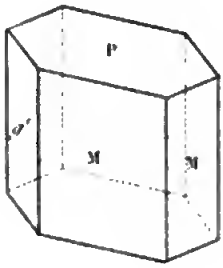

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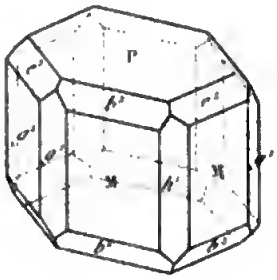

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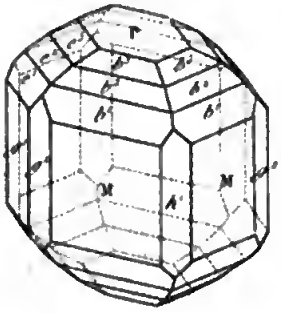

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Fig 73

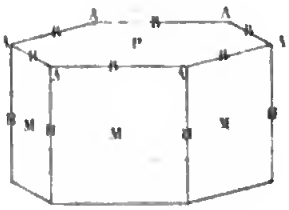
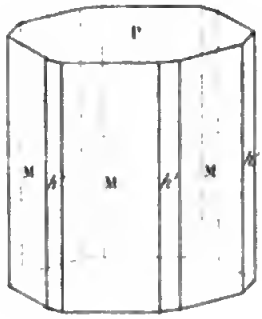


Fig 74



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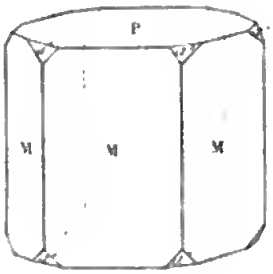
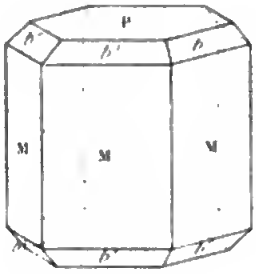


Fig 76



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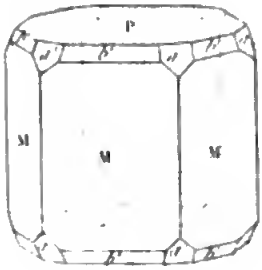

Fig 78

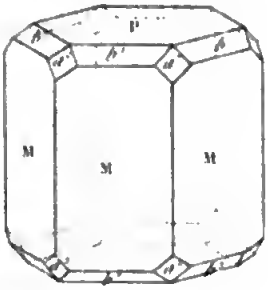

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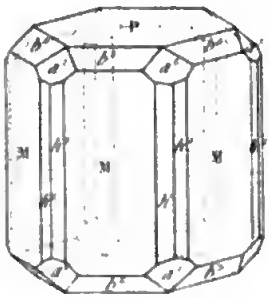
Fig. 79



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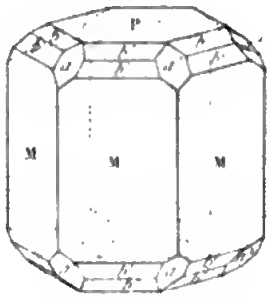

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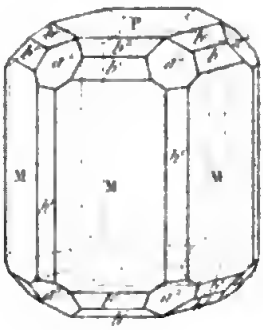

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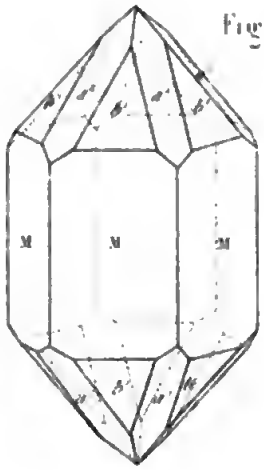

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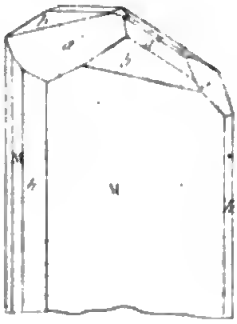

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Fig. 84

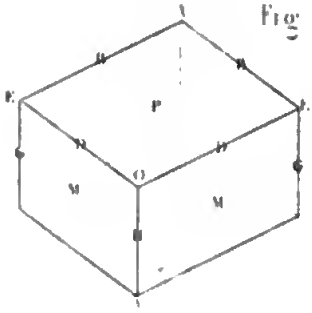

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Fig 85.

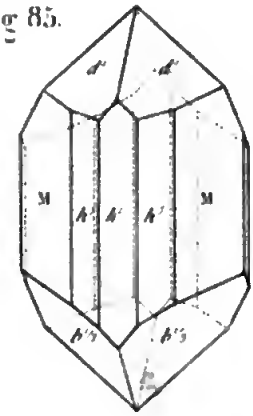
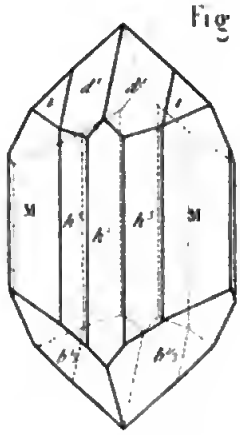
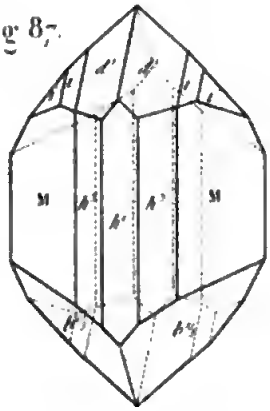


Fig 86



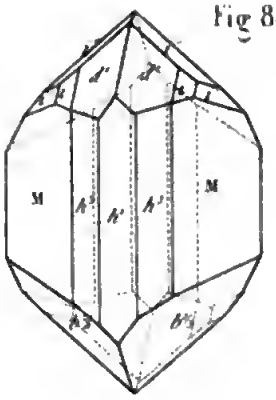
$t = (d^1 b^{\frac{1}{2}} g^{\frac{1}{2}})$

Fig 87.



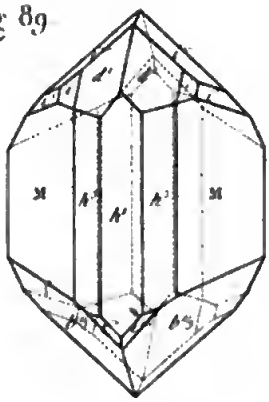
$t' = d^1 b^{\frac{1}{2}} g^{\frac{1}{2}}$

Fig 88



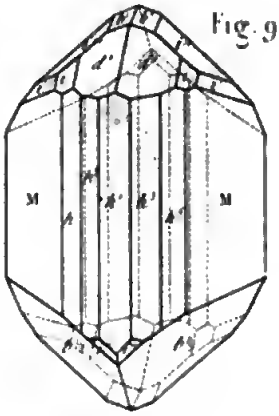
$t'' = b d^{\frac{1}{2}} g^{\frac{1}{2}}$

Fig 89



$t'' = b^1 h^{\frac{1}{2}} h^1$

Fig. 90.



$t'' = (b^1 d^{\frac{1}{2}} g^{\frac{1}{2}})$

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Fig. 91

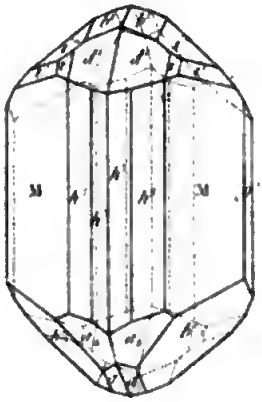


Fig. 92

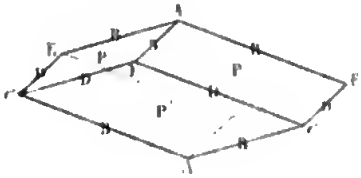


Fig. 94

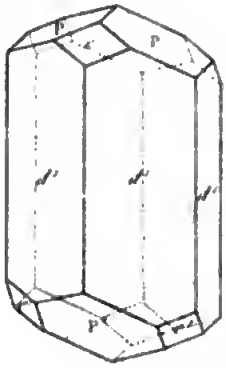
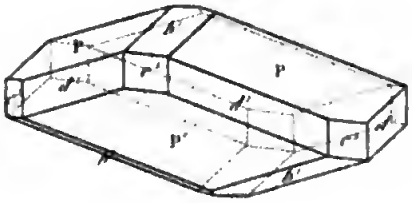


Fig. 93



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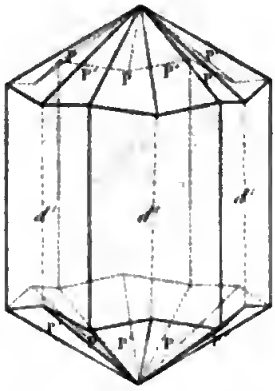

Fig. 96

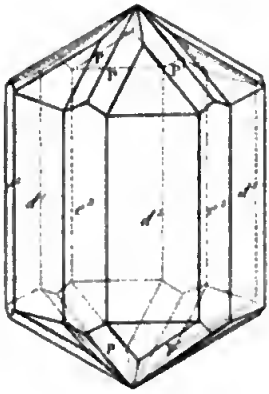

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Fig 97.

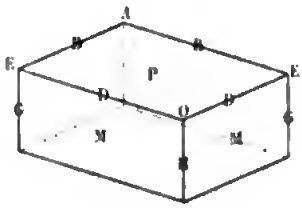

Fig 98

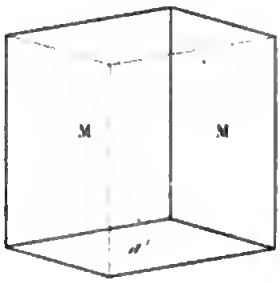

Fig 99

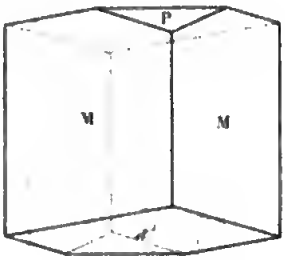

Fig 100

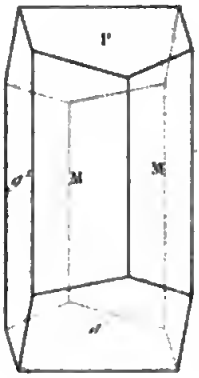

Fig 101

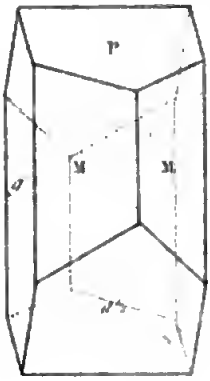

Fig 102

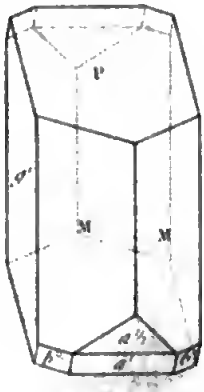

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Fig 103.

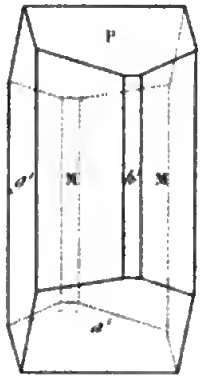

Fig 104

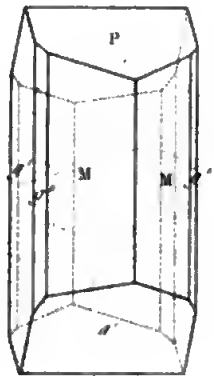

Fig 105

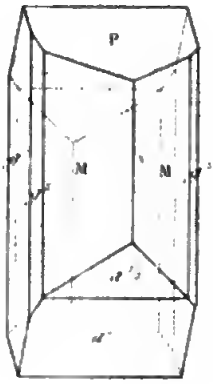

Fig 106

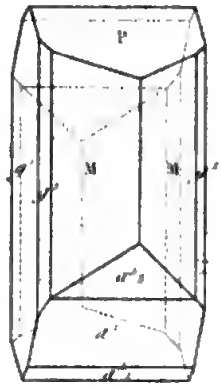

Fig 107

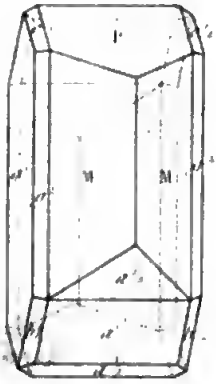

Fig 108

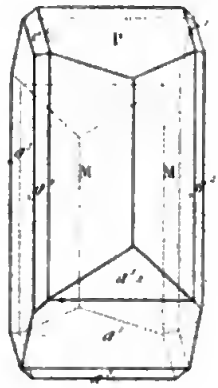

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Fig 109

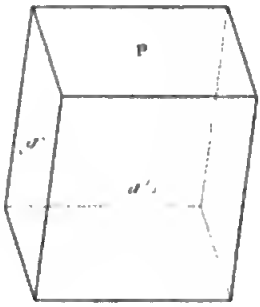


Fig 110

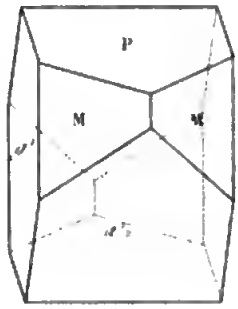
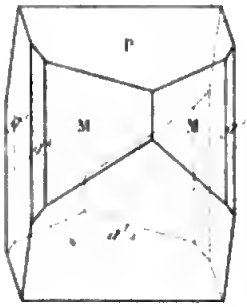


Fig 111



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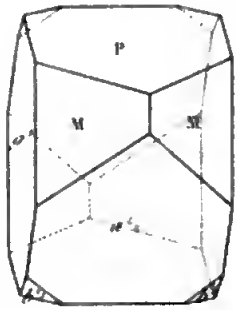
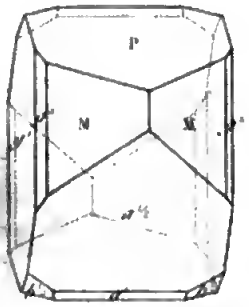


Fig 113



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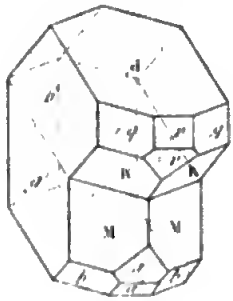

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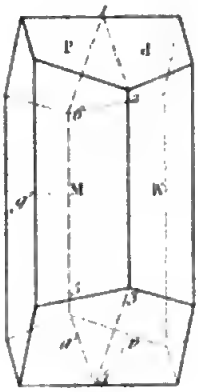
Fig 115.



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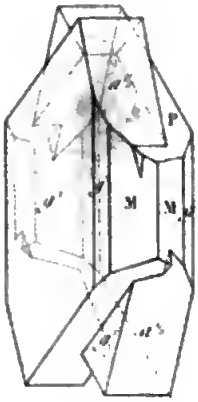

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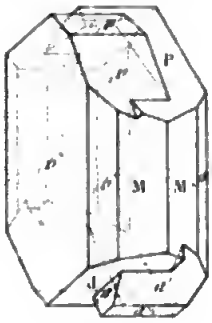

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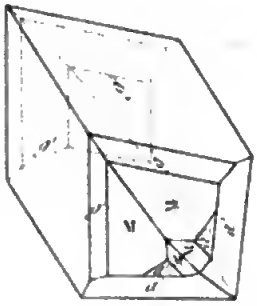

Fig 119

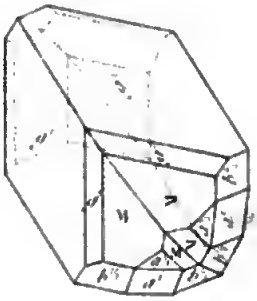

Fig 120

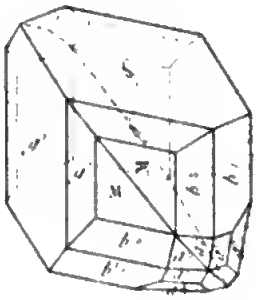

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Fig. 121

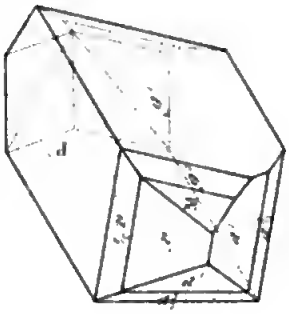

Fig. 122

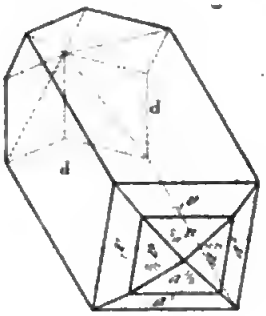

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Fig. 123

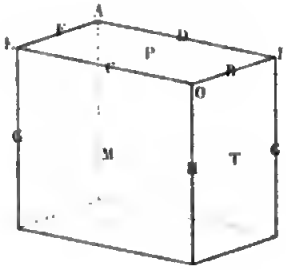

Fig. 124

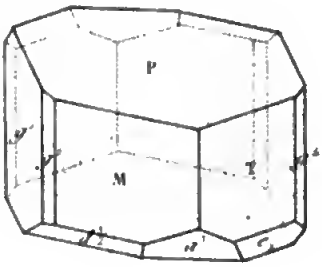

Fig. 125

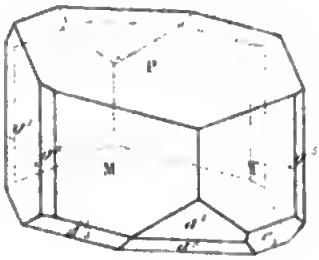

Fig. 126

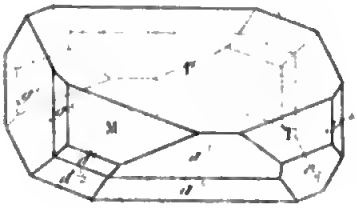

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Fig. 127

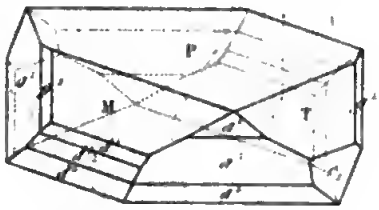
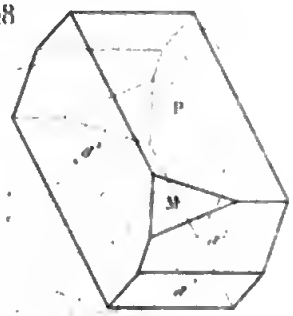


Fig. 128



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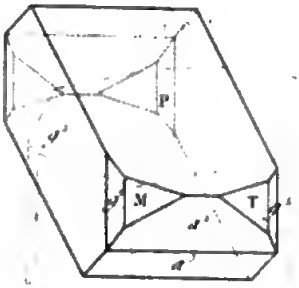
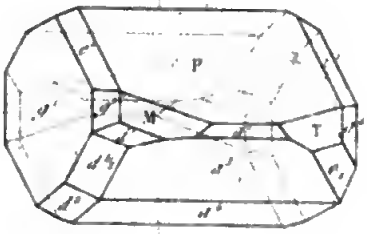


Fig. 130



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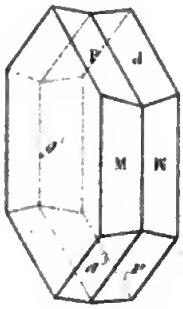

Fig. 132

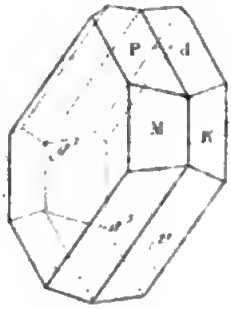

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Fig 153

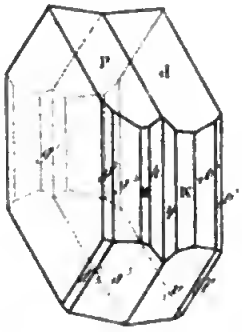


Fig 154

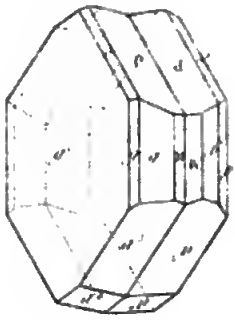
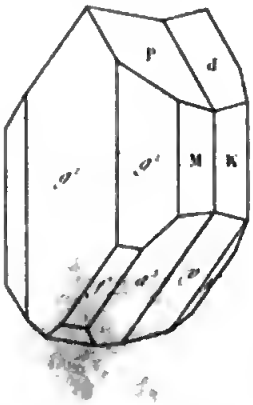


Fig 155



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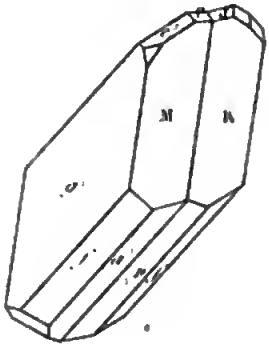

Fig 157

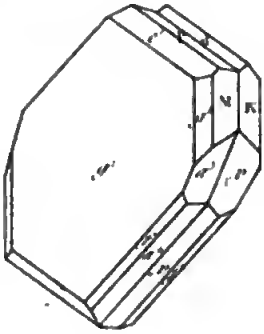

Fig 158

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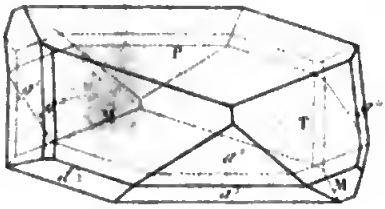

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Fig 139

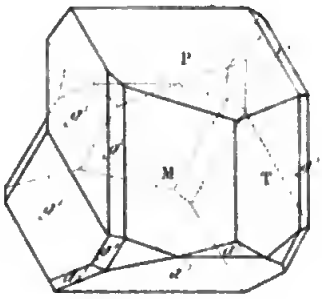
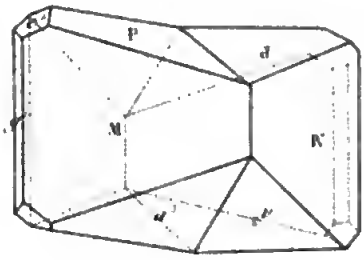


Fig 140

PERICLINE.



ANORTHITE.

Fig. 141

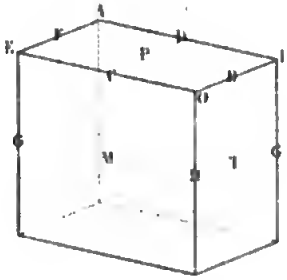
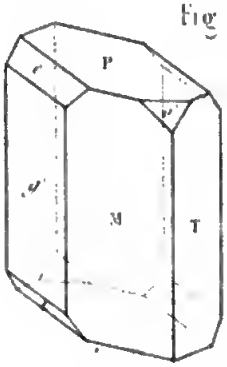


Fig 142



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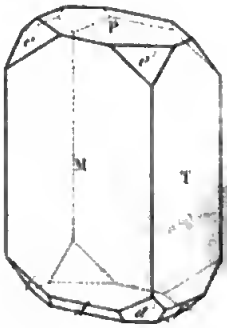

Fig 144

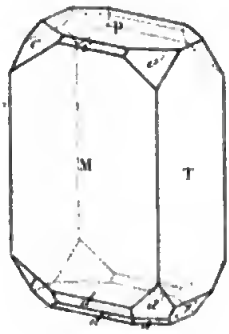

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Fig 145

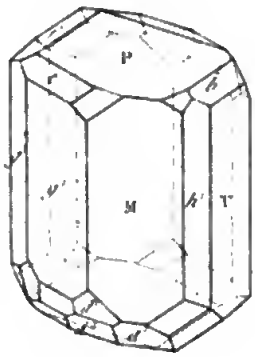


Fig 146

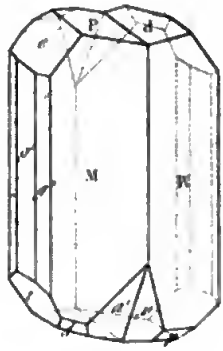
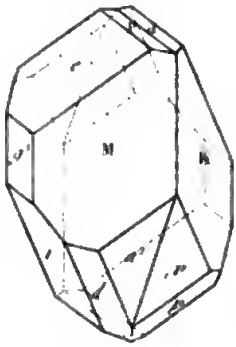


Fig 147



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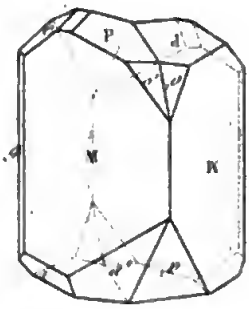

Fig 149

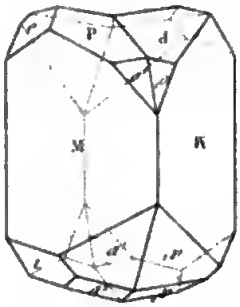

Fig 150

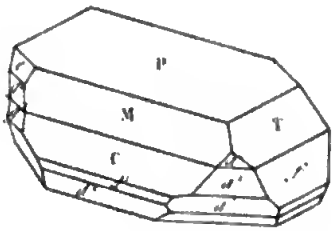

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Fig. 151

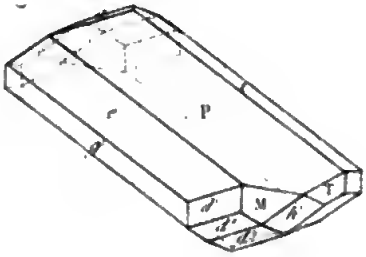

Fig. 152

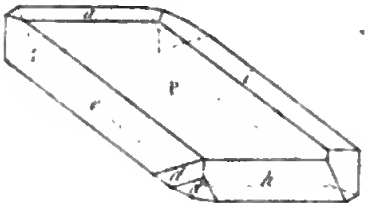

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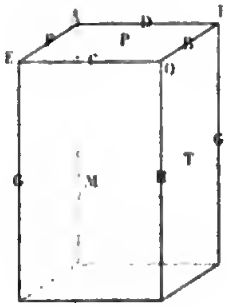
Fig. 153



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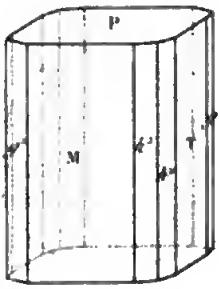

AMPHIGÈNE.

Fig. 155

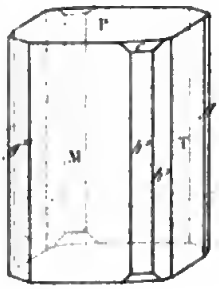

Fig. 156

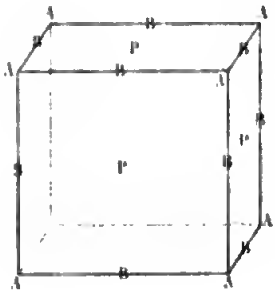

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Fig. 157.

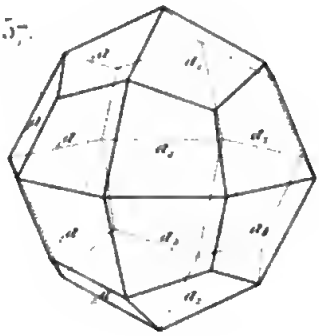

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Fig. 158.

Fig. 159

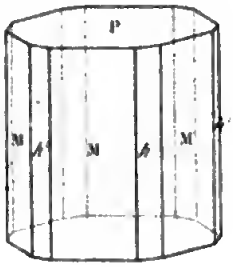


Fig. 160

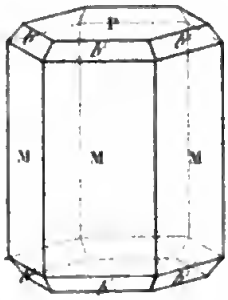


Fig. 161

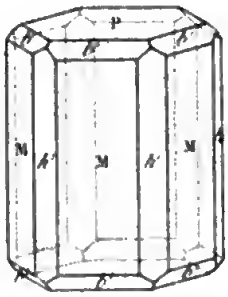
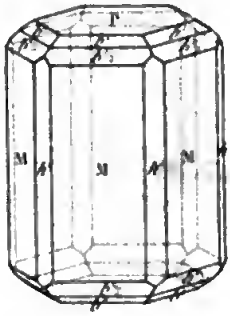


Fig. 162



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

HUMBOLDTILITE.

Fig. 163

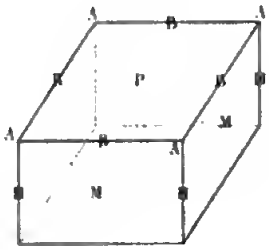
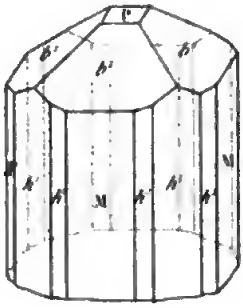


Fig. 164



SARCOLITE
DU VESUVE

Fig. 165

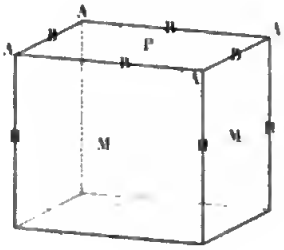
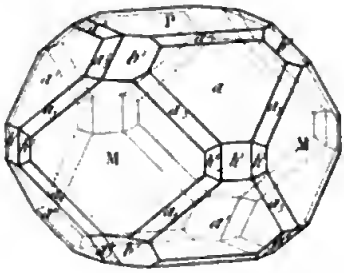


Fig. 166



COUZERANITE.

Fig. 167

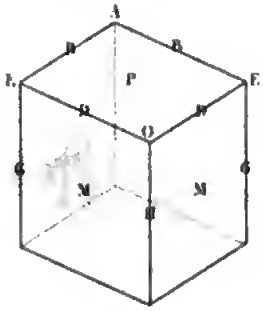
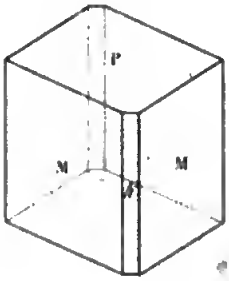


Fig. 168



VITTORIO EMANUELE III
NAPOLI

APOPHYLLITE

Fig 169

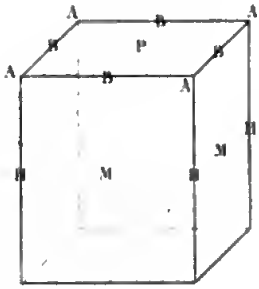
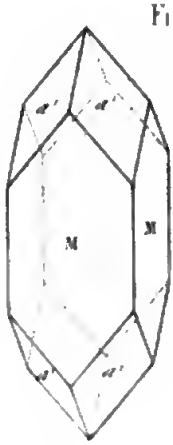


Fig 170



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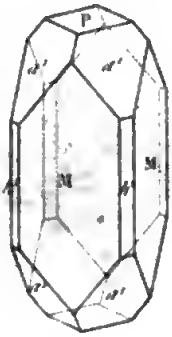
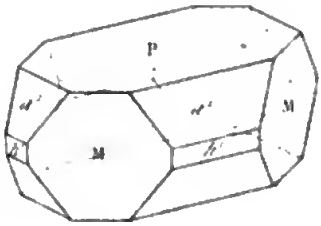


Fig 172



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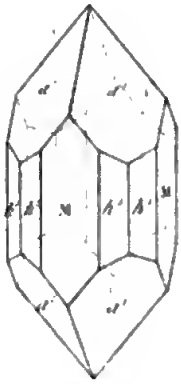
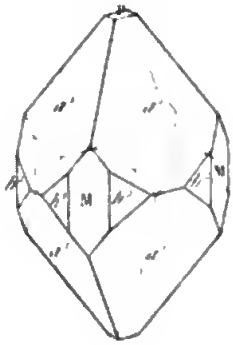


Fig 174



BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

APOPHYLLITE.

Fig. 175

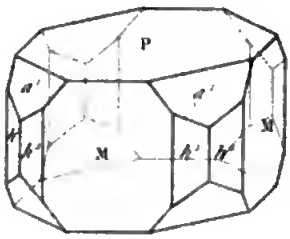


Fig. 176

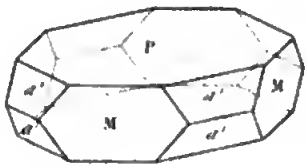


Fig. 177

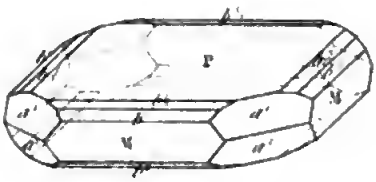
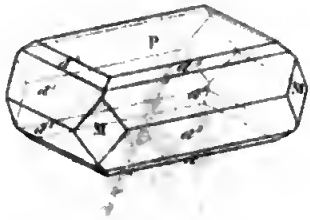


Fig. 178



MÉSOTYPE.

Fig. 179

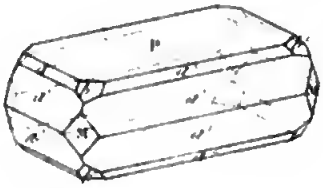
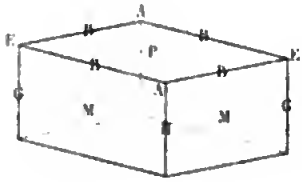


Fig. 180



NAPOLI

MESOTYPE

Fig 181

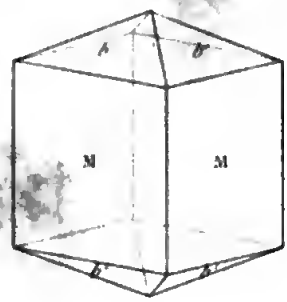


Fig 182

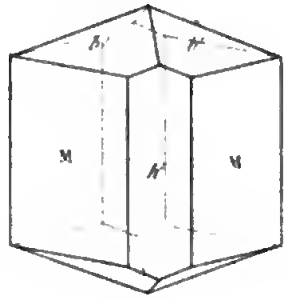
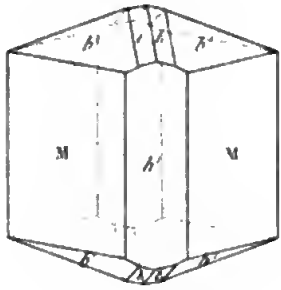
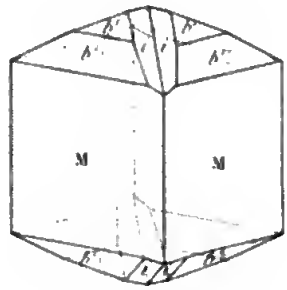


Fig 183



$t = (h' h'' = h' n)$

Fig 184



$t = (h' h' = h' n)$

MÉSOLITE

Fig 185

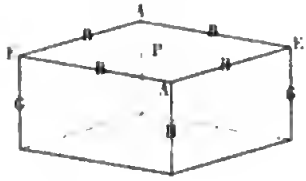
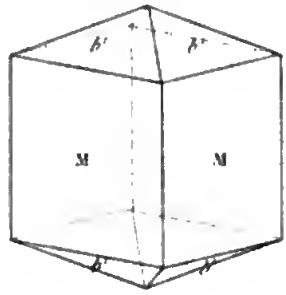


Fig 186



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

MÉSOTYPE

MESOLITE

Fig 187

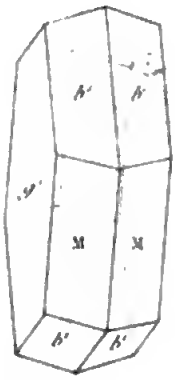
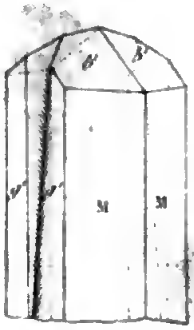


Fig 188



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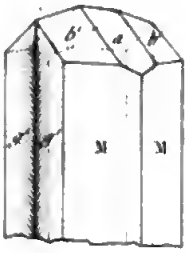

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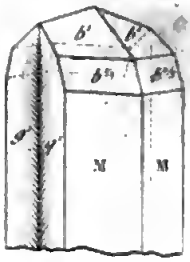


Fig 189bis

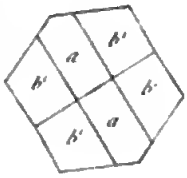


Fig 190bis

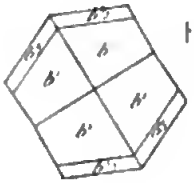
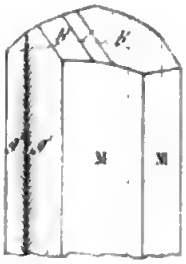
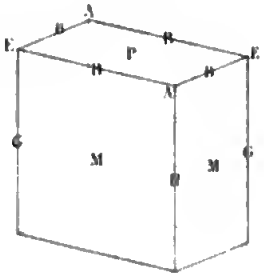


Fig 191



STILBITE.

Fig 192



BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III" NAPOLI

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STILBITE.

Fig 193

Fig 194

HEULANDITE

Fig 195

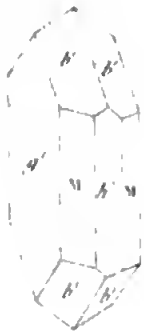

Fig 196

Fig 197

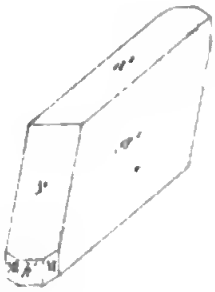

Fig 198

BIBLIOTECA NAZ. VITTORIO EMANUELE III NAPOLI

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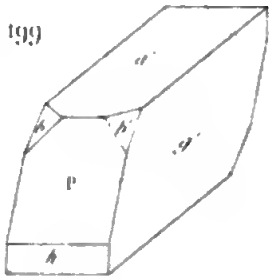
HEULANDITE

Fig 199



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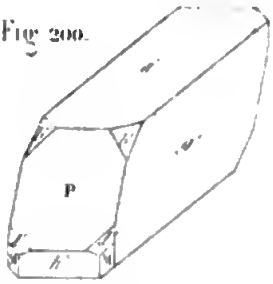
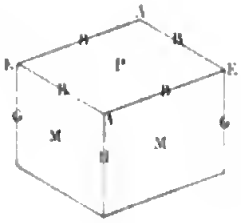


EPISTILBITE

Fig 201



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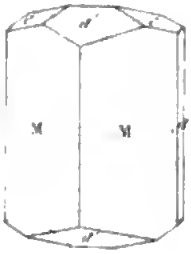


Fig 203

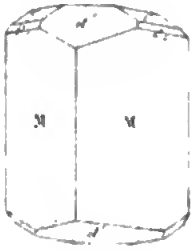
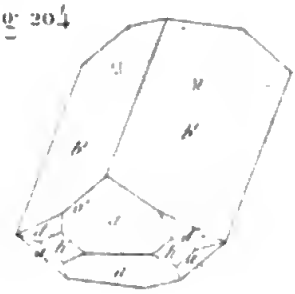


Fig 204



BREWSTÉRITE.

Fig 205

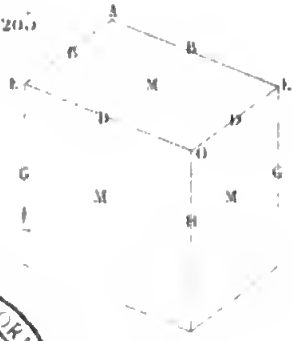
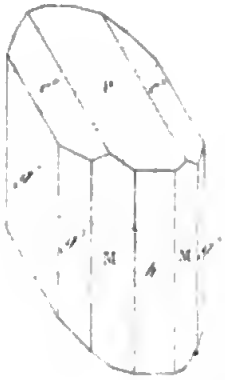


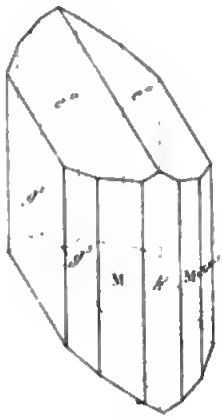
Fig 206



NAPOLI

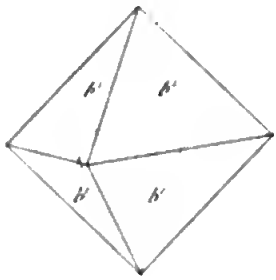
BREWSTÉRITE

Fig. 207



FAUJASITE

Fig. 208



GISMONDINE.

Fig. 210

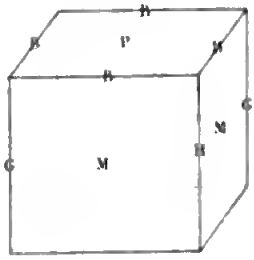
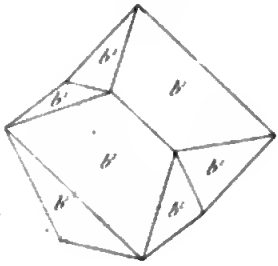


Fig. 209



PHILLIPSITE.

Fig. 212.

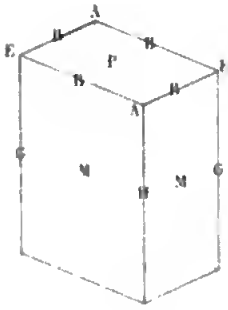
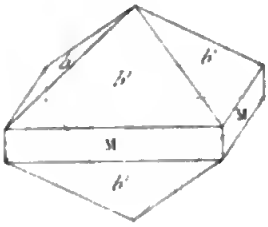


Fig. 211



VITTORIO EMANUELE III - BIBLIOTECA NAZIONALE NAPOLI

PHILLIPSITE.

Fig. 213

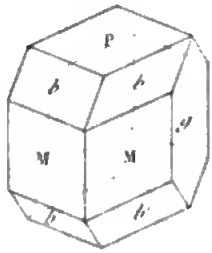


Fig. 214

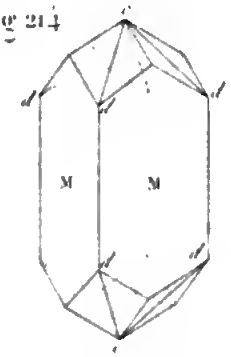
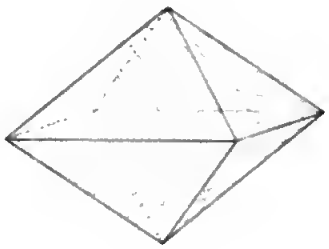
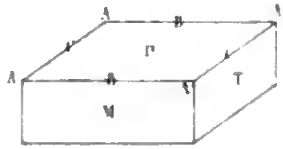


Fig. 215



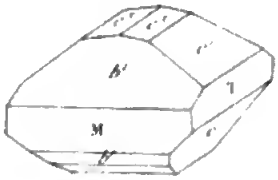
EDINGTONITE.

Fig. 216



LAUMONITE

Fig. 217



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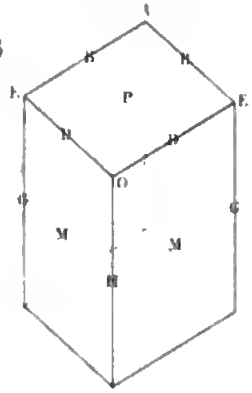


NAPOLI

LAUMONITE

Fig 219

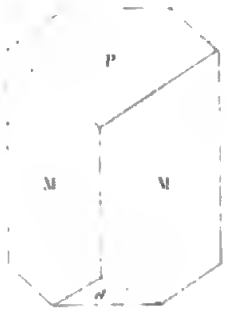


Fig 220

Fig 221

PREHNITE

Fig 222

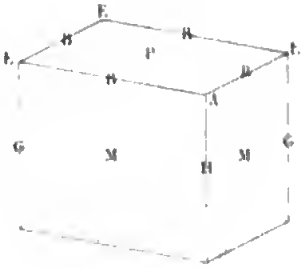
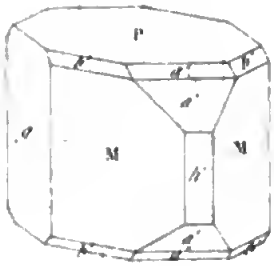


Fig 223

Fig 224



VITTORIO EMANUELE III
NAPOLI
BIBLIOTECA

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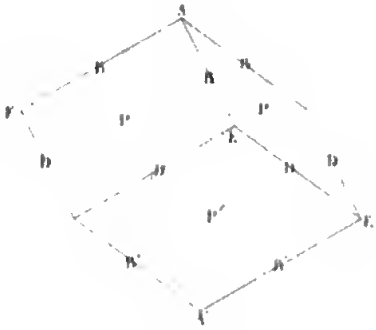
PREHNITE

Fig. 225

Fig. 226

CHABASIE

Fig. 227



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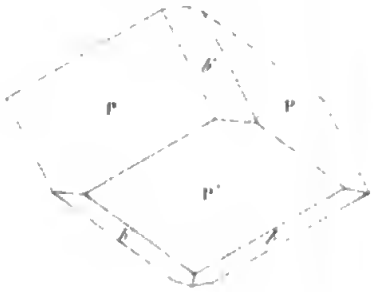

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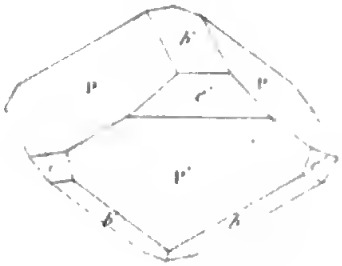

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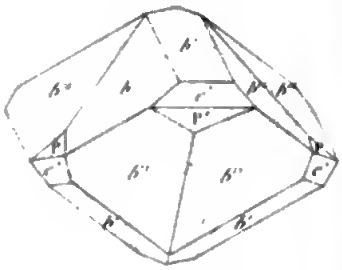
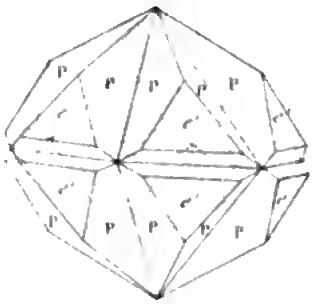


NAPOLI

CHABASIE.

Fig 251



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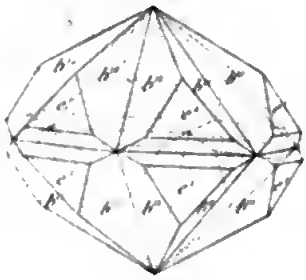
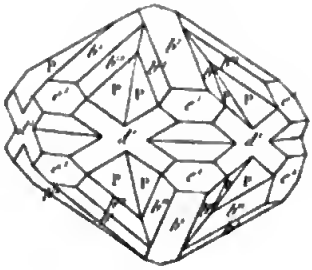


PHAKOLITE.

Fig 253



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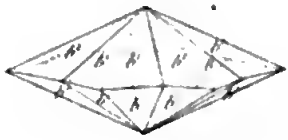


LÉVYNE

Fig 255.

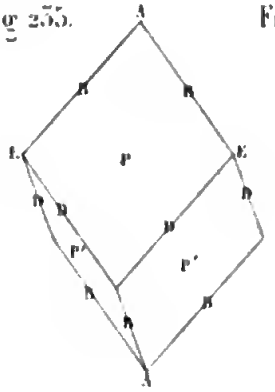
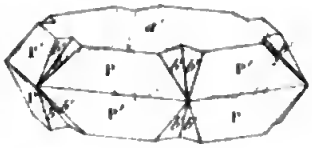


Fig 256



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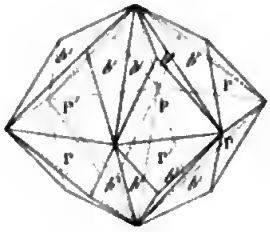
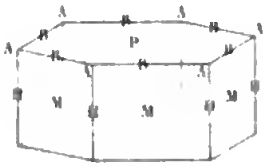


BIBLIOTECA NAZIONALE VITTORIO EMANUELE III
NAPOLI

HYDROLITE.

Fig 238



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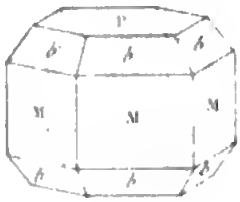
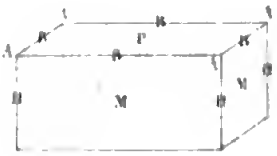


BEAUMONTITE.

Fig 240



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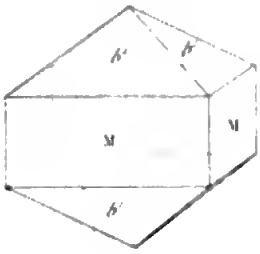
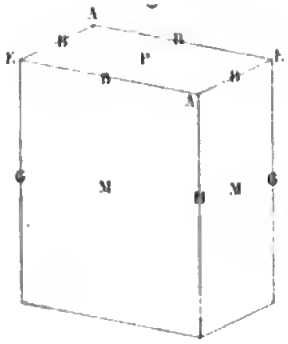


HARMOTOME.

Fig 242



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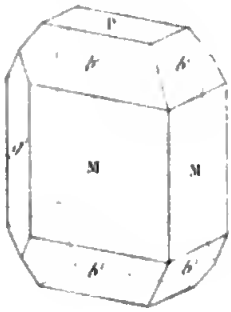


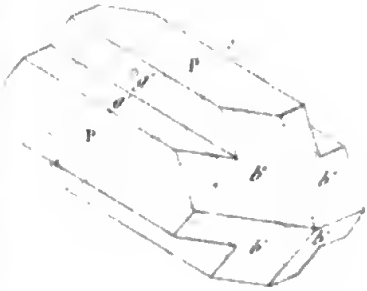
NAPOLI

HARMOTOME

Fig 244

Fig 245

Fig 246



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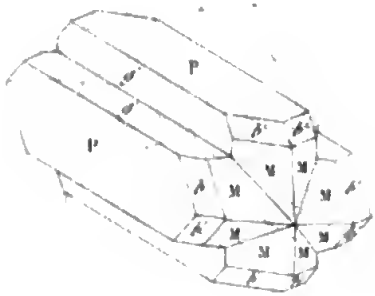

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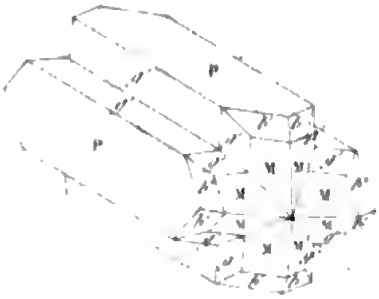
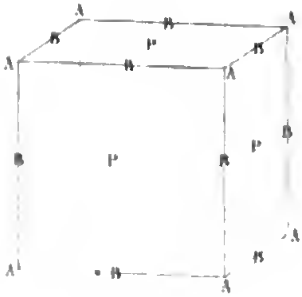


ANALCIME

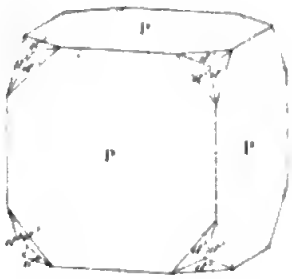
Fig 249



NAPOLI

ANALCIME

Fig 250



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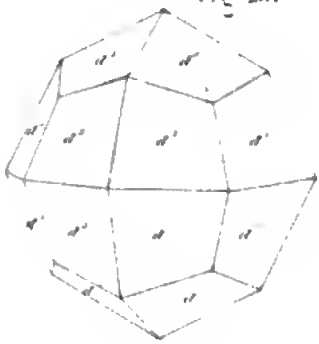

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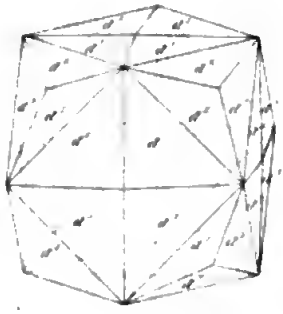


THOMSONITE

Fig 253

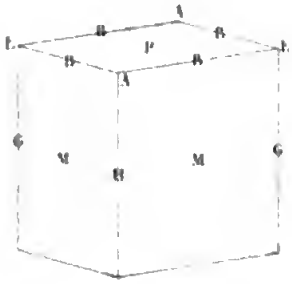
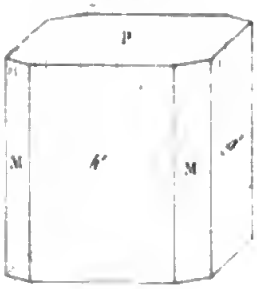


Fig 254

COMPTONITE



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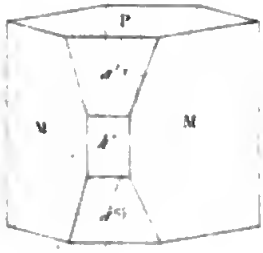


NAPOLI

THOMSONITE

Fig 256

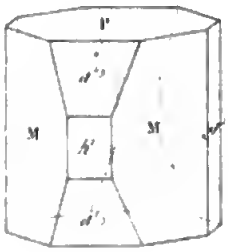
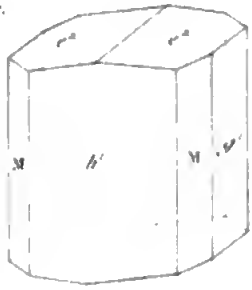


Fig 257

COMPTONITE



PENNINE

Fig 258

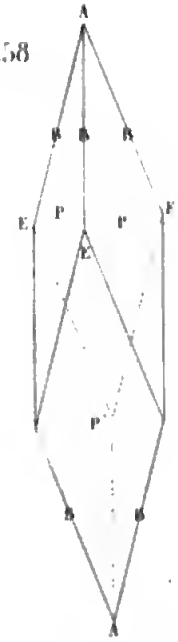
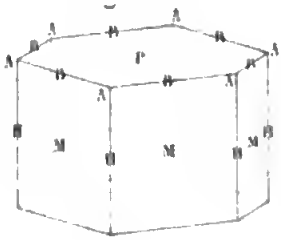


Fig 259

CHLORITE HEXAGONALE.

Fig 260



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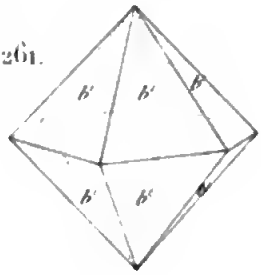

BIBLIOTECA NAZIONALE "VITTORIO EMANUELE III"
NAPOLI

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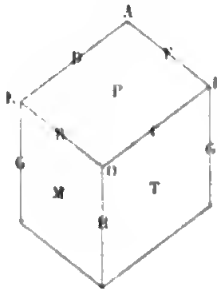
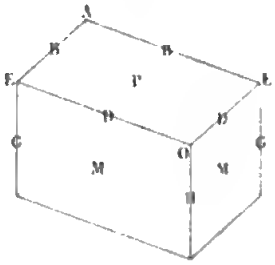
XANTHITE.

Fig. 262



WOLLASTONITE.

Fig. 263



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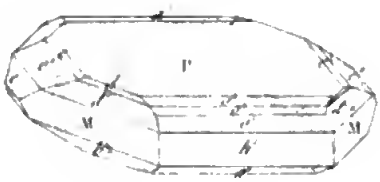
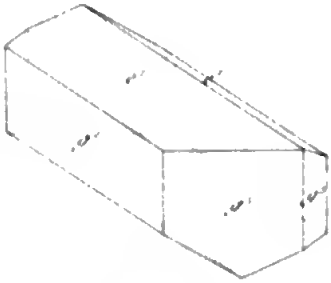


PERIDOT.

Fig. 265

Fig. 266



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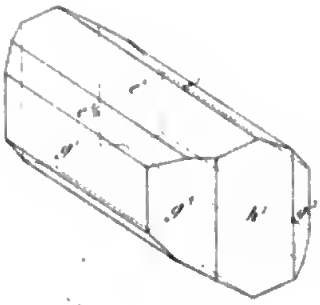
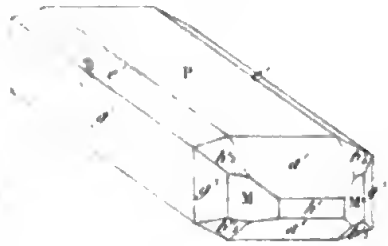


NAPOLI

PERIDOT.

Fig. 268

Fig. 269



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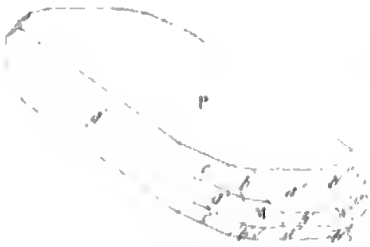


Fig. 271

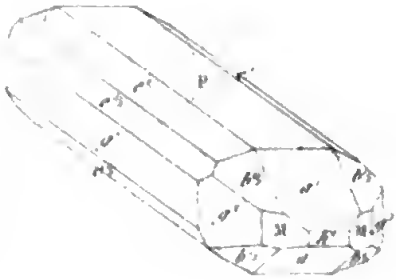


Fig. 272

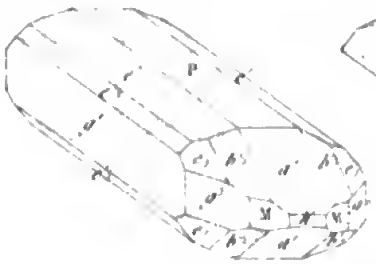
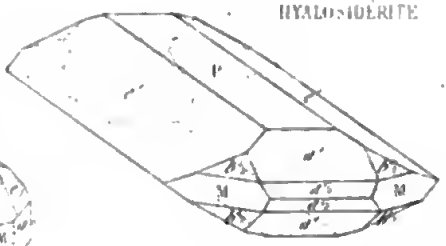


Fig. 273

HYALOSIDÉRITE

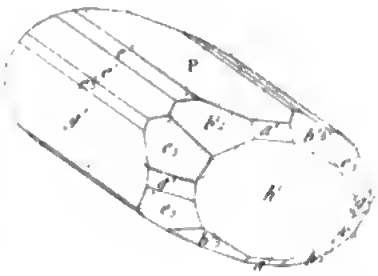


NAPOLI

PÉRIDOT.

Fig. 274

Fig. 275



VILLARSITE.

Fig. 276

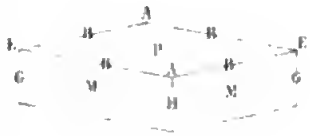


Fig. 277

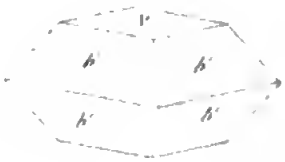


Fig. 278

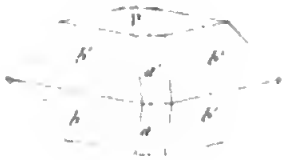


Fig. 279

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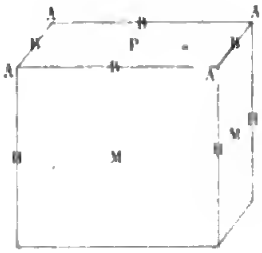
Fig 280



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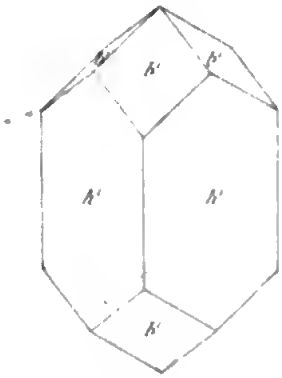

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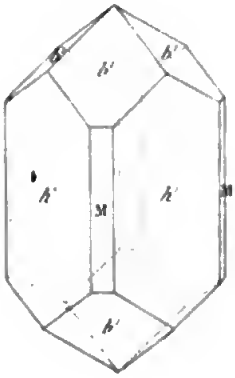
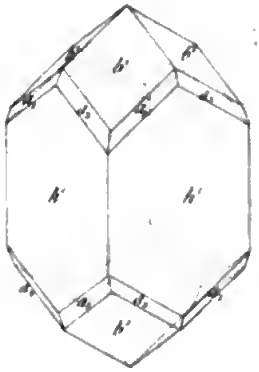


Fig 283



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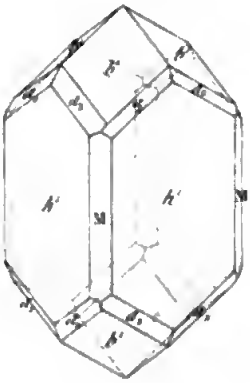

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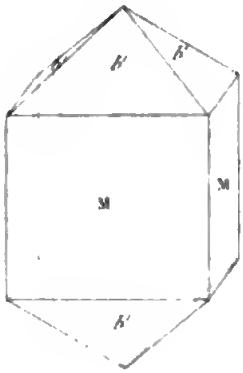

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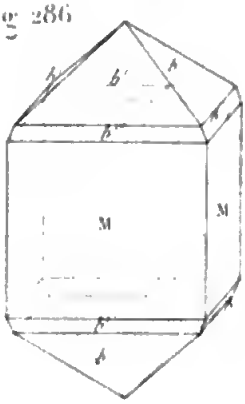
Fig. 286



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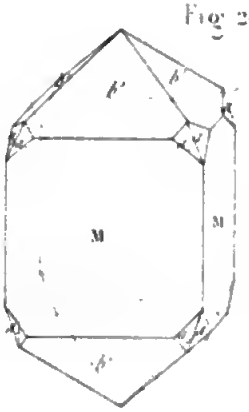

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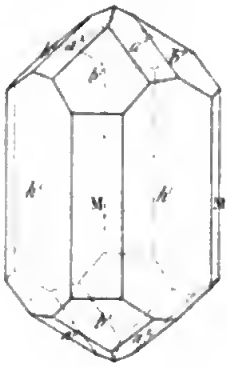

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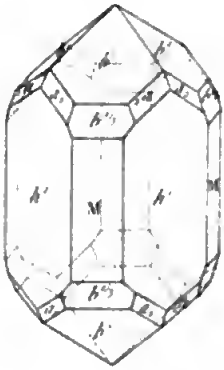

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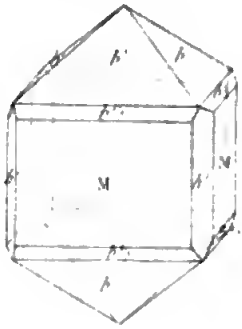

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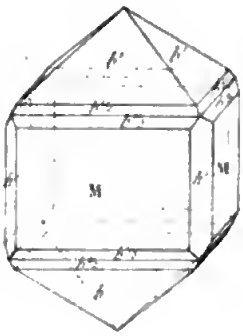

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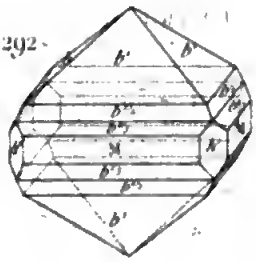


Fig 293

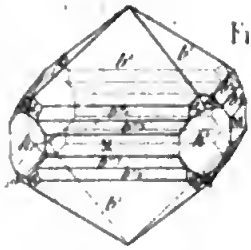
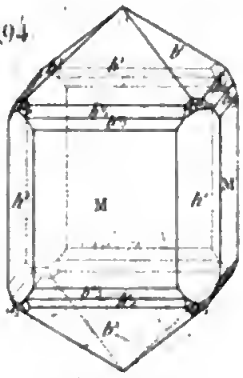


Fig 294



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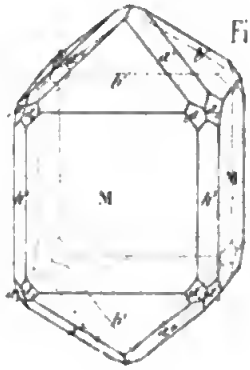

Fig 296.

MALAKON

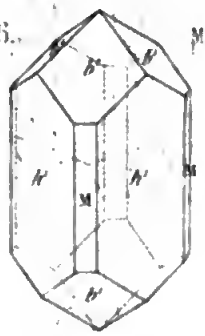

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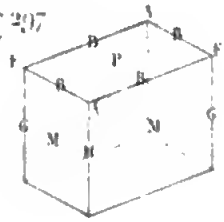
Fig 297



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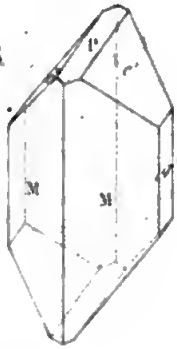

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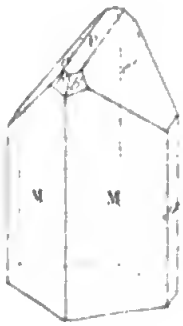

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Fig 300.

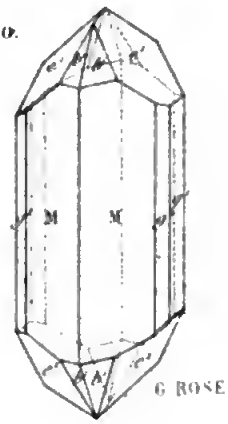

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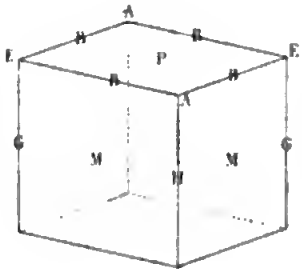
Fig 301



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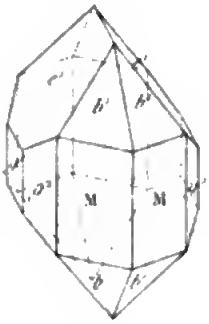

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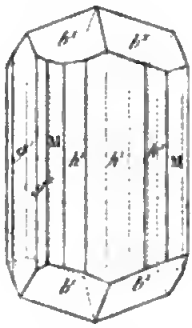

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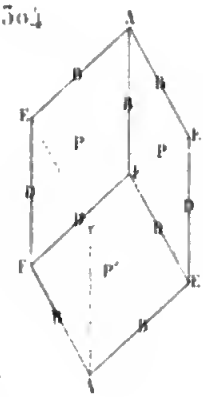
Fig 304



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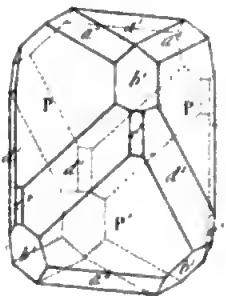

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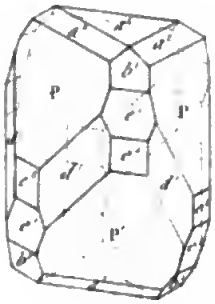
Fig 306



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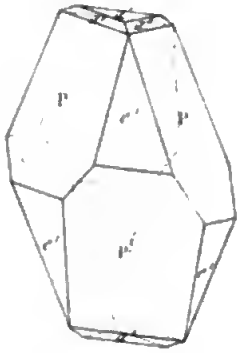

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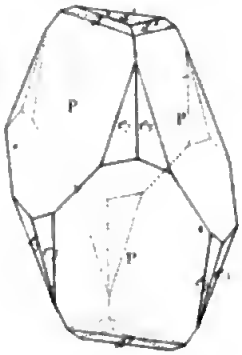

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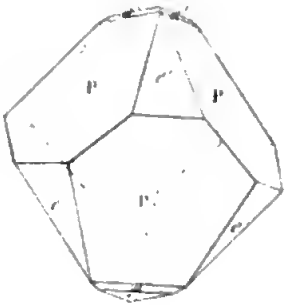

AMPHIBOLE

Fig 310

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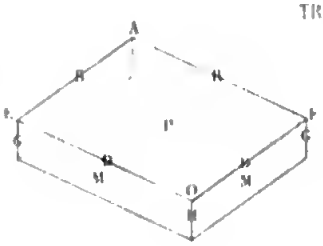

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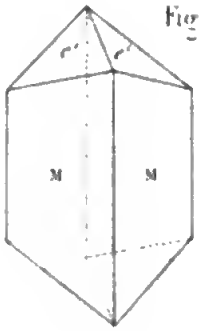

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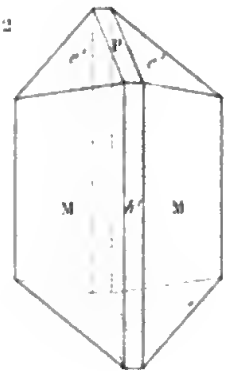
Fig. 512



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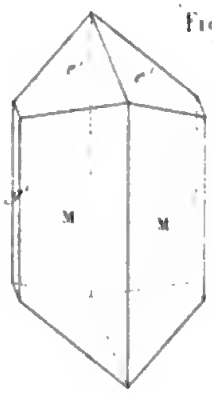

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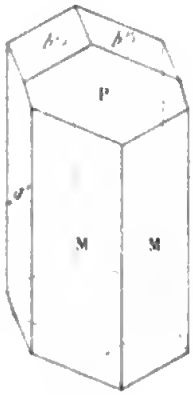
Fig. 514



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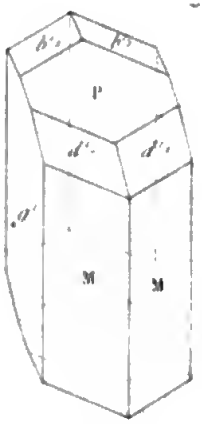

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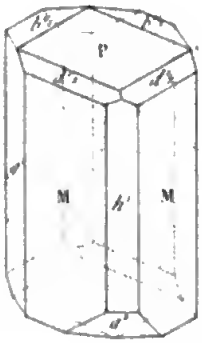

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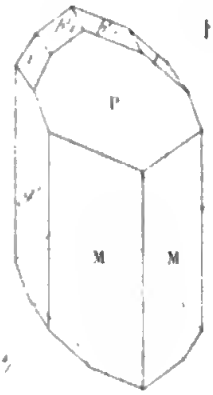

$s = d^1 b^1 g^1$

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Fig 518

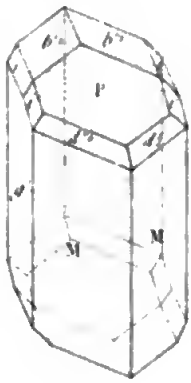
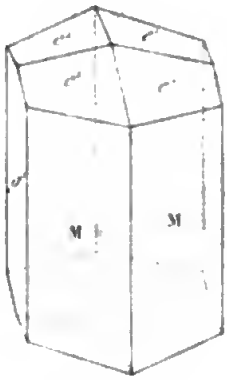


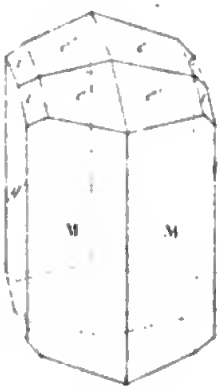
Fig 519



$t = d^1 b^1 g^4$

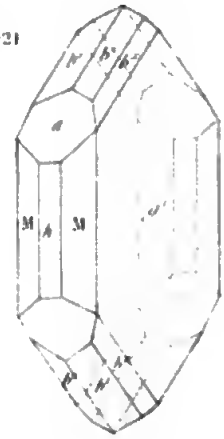
POLYKRASE

Fig 520



$t = d\ b\ g^4$

Fig 521



BABINGTONITE

Fig 522

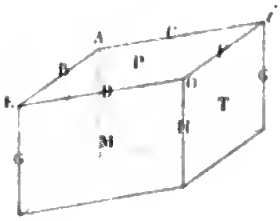


Fig 523

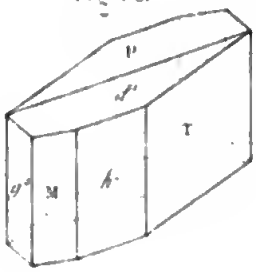


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Fig. 524

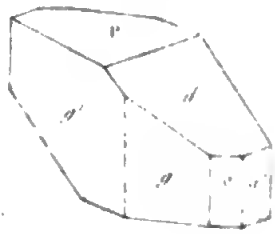

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Fig. 525.

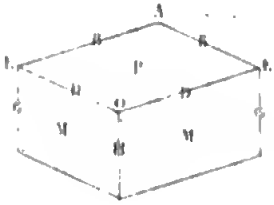


Fig. 526

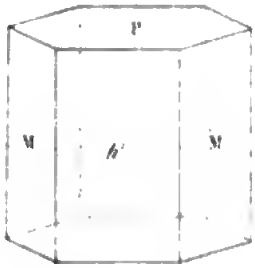
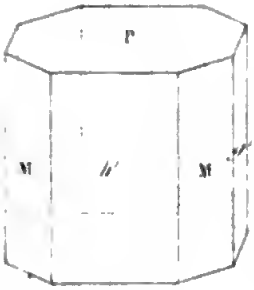


Fig. 527.



SALLITE

Fig. 528

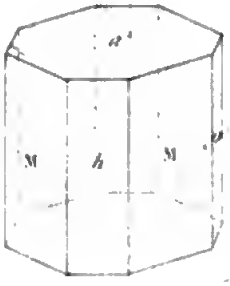
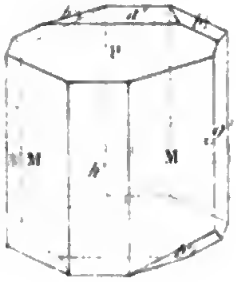


Fig. 529



BAIKALITE

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PYROXENE.

Fig 330

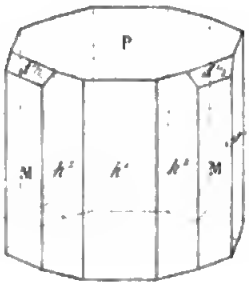

Fig 331

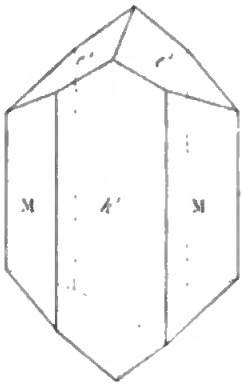

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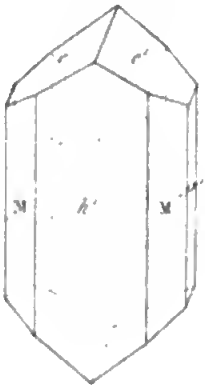
Fig 332



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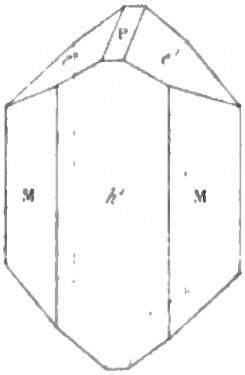

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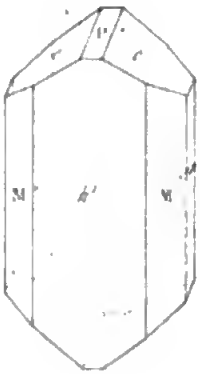

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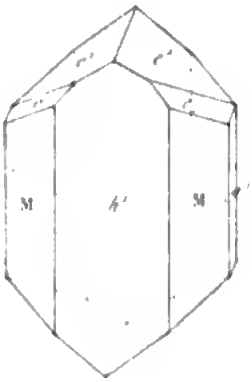

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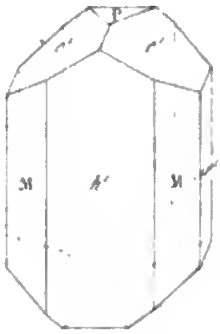

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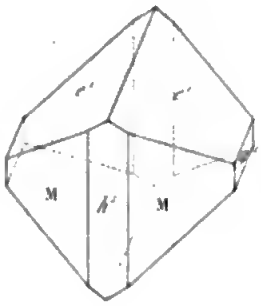

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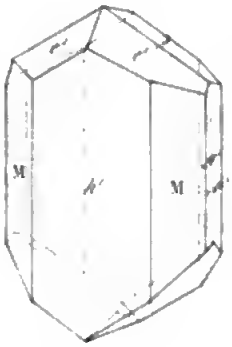

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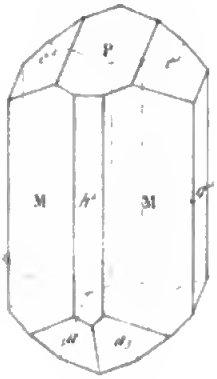

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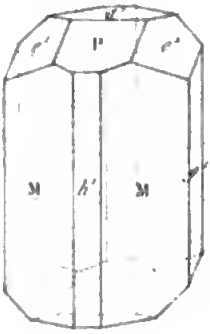

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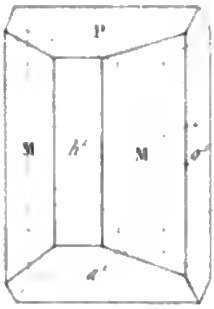

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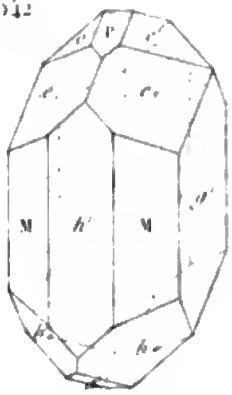
Fig 342



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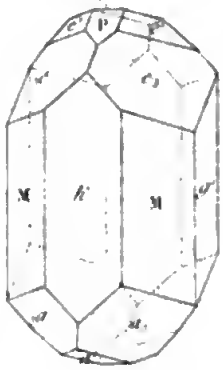

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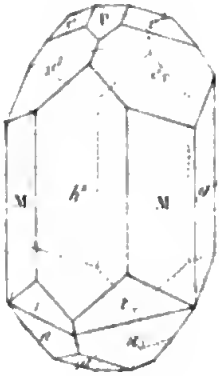
Fig 344



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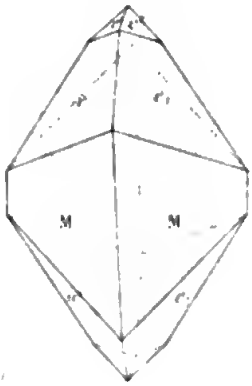

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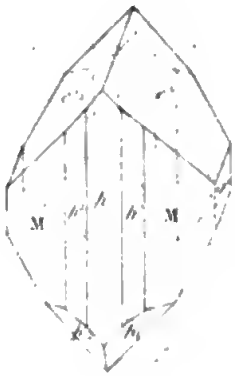

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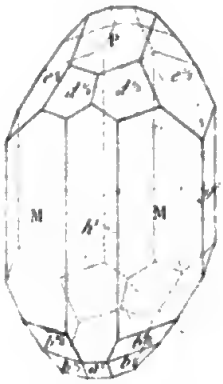

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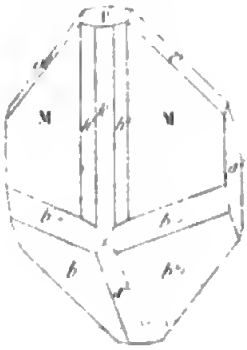
Fig 548



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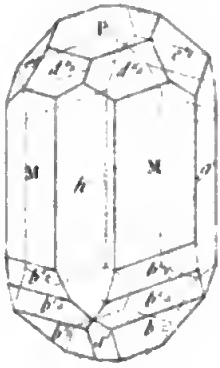

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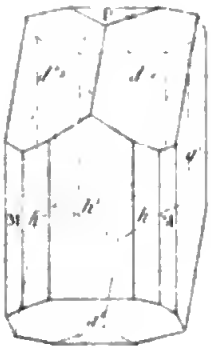

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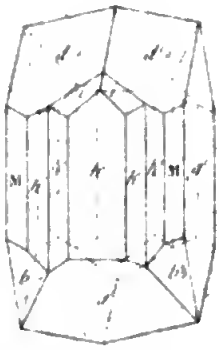

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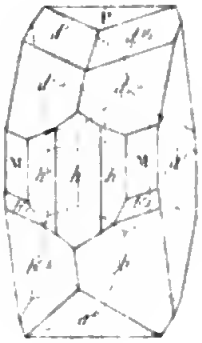

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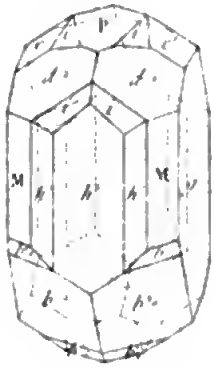

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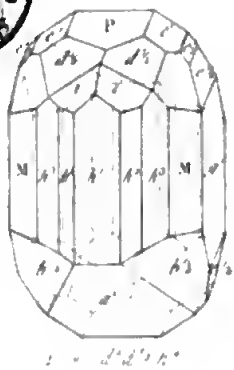
Fig 354



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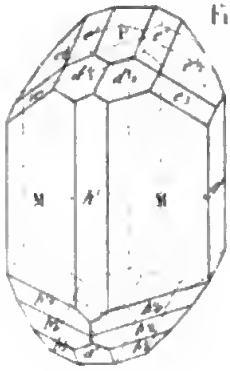

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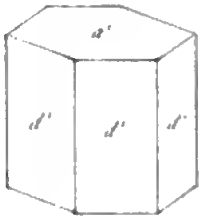

Fig 357

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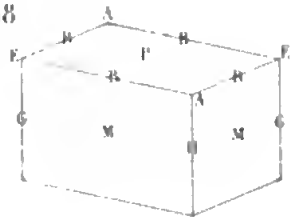
Fig 358



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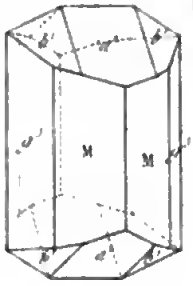

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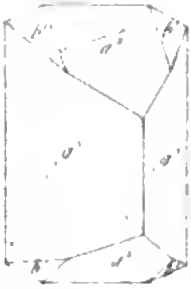

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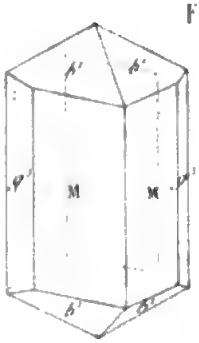

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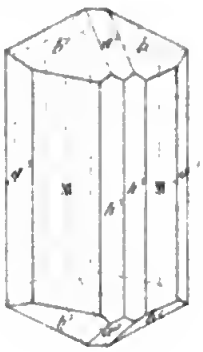
Fig 562



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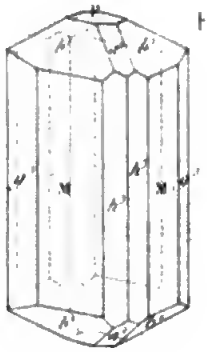

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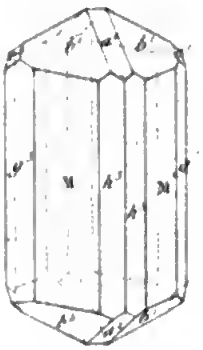

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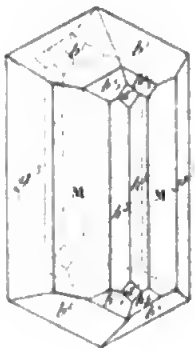

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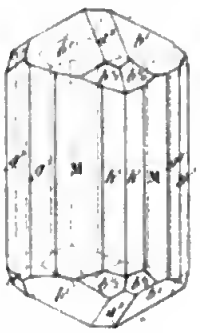

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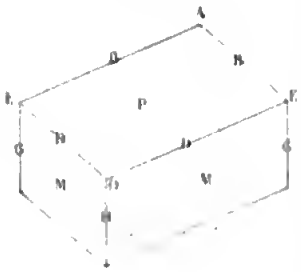

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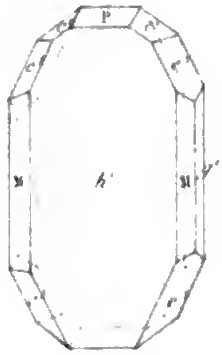
Fig 368

Fig 369



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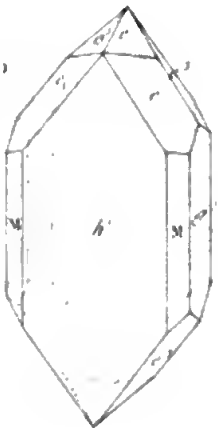

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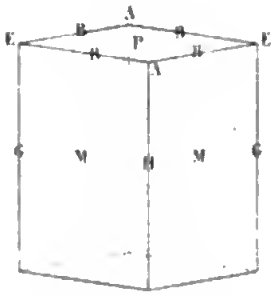
Fig 371



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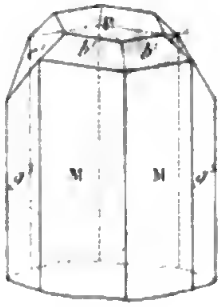

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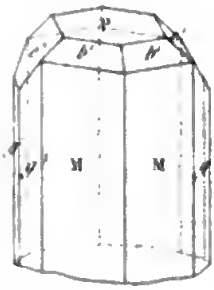

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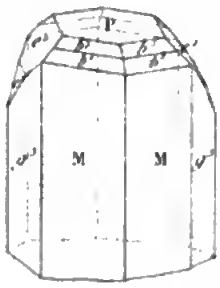
Fig. 374



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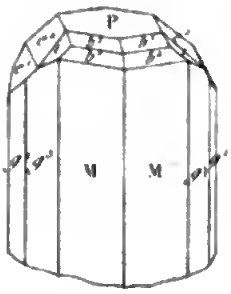

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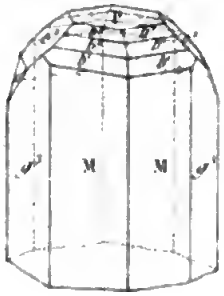

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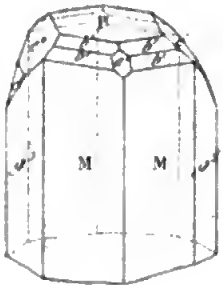

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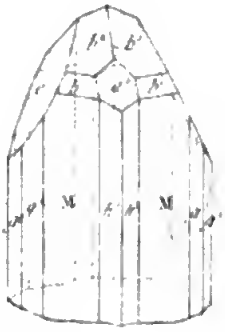

Fig. 379

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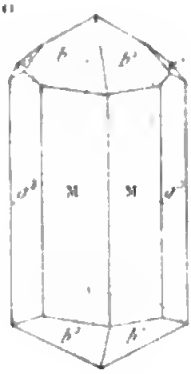
Fig 380



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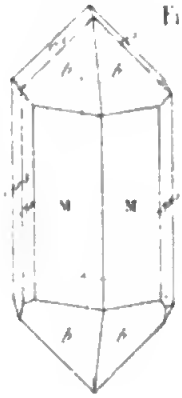

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Fig 382

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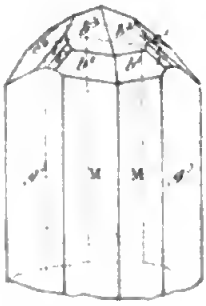
Fig 384



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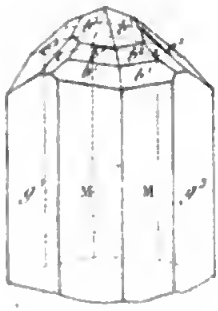

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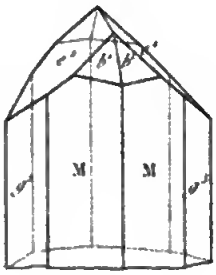
Fig 386



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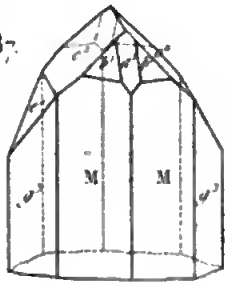
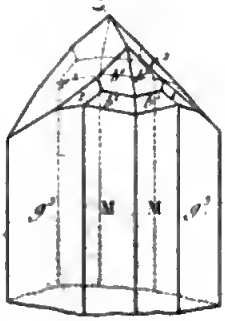


Fig 388



$i = h^2 h^1 g^{1/2}$

Fig 389

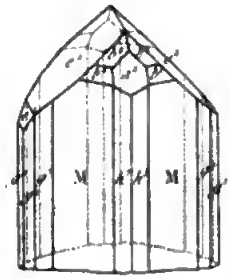


Fig 390

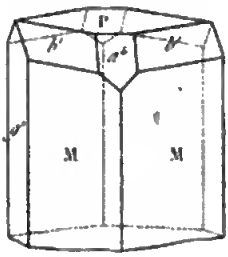


Fig 391

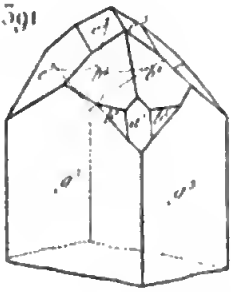
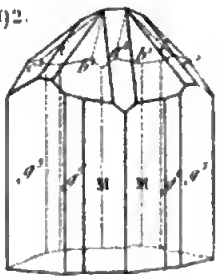
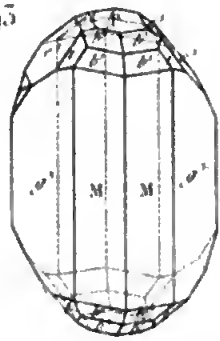


Fig 392.



$i = (h^2 h^1 g^{1/2})$

Fig 393



$i = (h^2 h^1 g^{1/2})$

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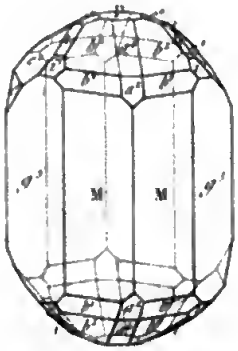
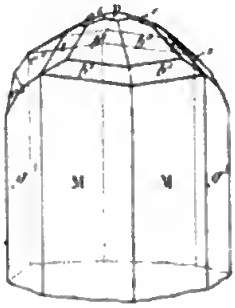
Fig 394



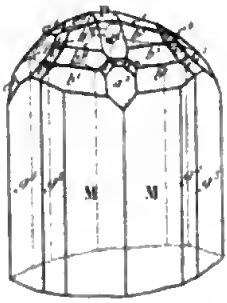
$i = (b^1 b^1 g^{1/2})$ $i'' = (b^1 b^{1/2} g^{1/2})$

Fig 395.



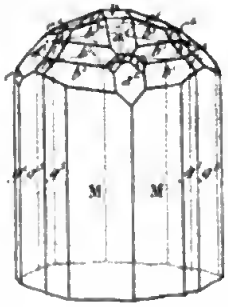
$i = (b^1 b^1 g^{1/2})$

Fig 396



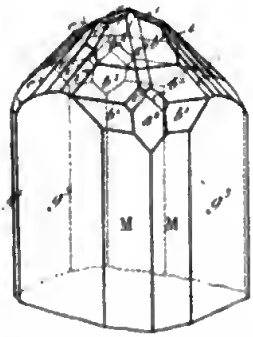
$i = b^1 b^1 g^1$, $i'' = b^1 b^1 g^1$

Fig 397.



$i'' = b^1 b^1 g^1$, $i''' = b^1 b^1 h^1$

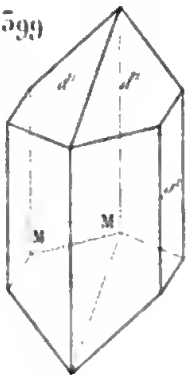
Fig 398



$i = (b^1 b^1 g^1)$ $i'' = b^1 b^1 g^1$ $i''' = b^1 b^1 g^1$
$i'' = b^1 b^1 g^1$ $i' = b^1 b^1 h^1$

CONDRODITE

Fig 399



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MICA

EN PRISME RHOMBOIDAL DROIT

Fig 400

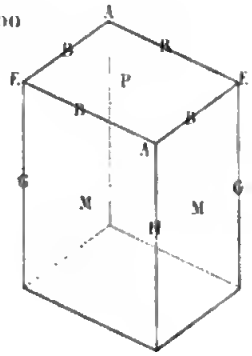
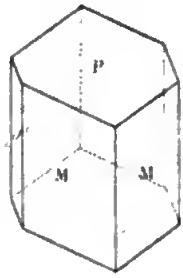


Fig 401



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EN PRISME RHOMBOIDAL OBLIQUE

Fig 402

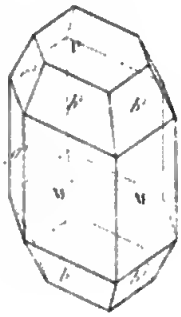


Fig 403.

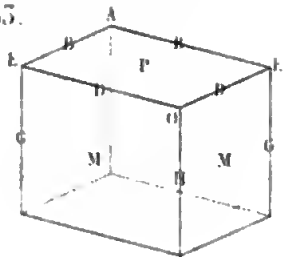
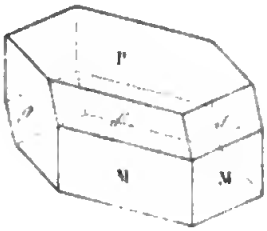


Fig 404



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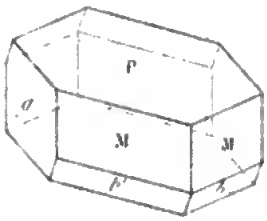

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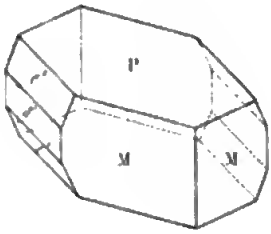
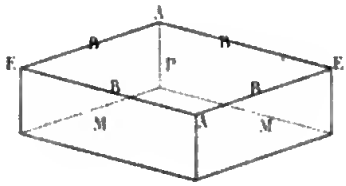
Fig 406



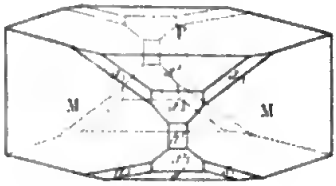
DATHOLITE

Fig 407.



CRISTAUX D'ARENDAL

Fig 408



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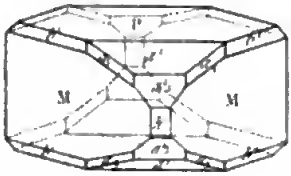
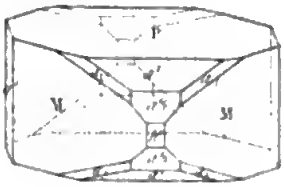


Fig 410



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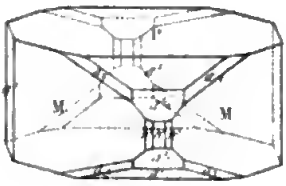

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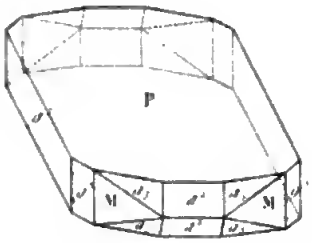
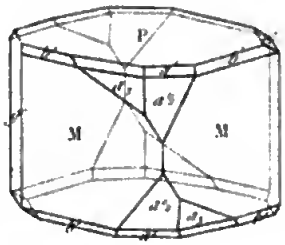
Fig. 412.



CRISTAUX D'ANDREASBERG.

Fig. 413.



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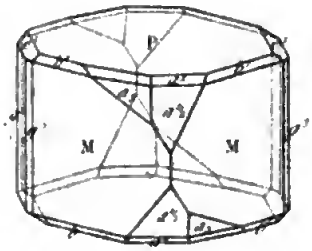
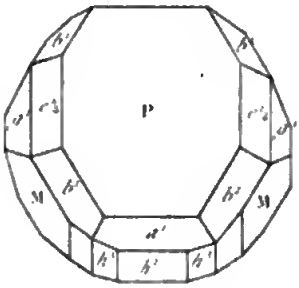


HAYTORITE.

Fig. 415.



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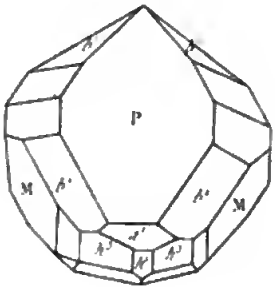

HUMBOLDTITE.

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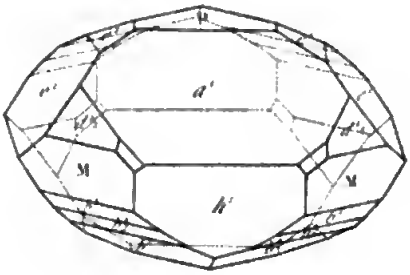

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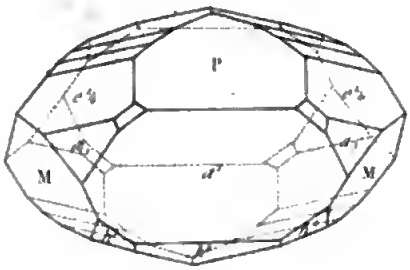
DATHOLITE

HUMBOLDTITE

Fig 418.



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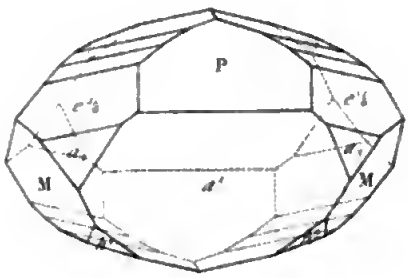
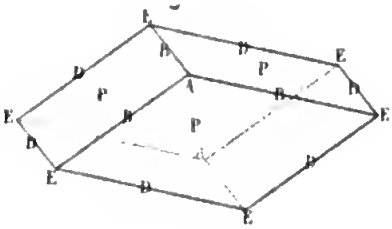


TOURMALINE

Fig 420



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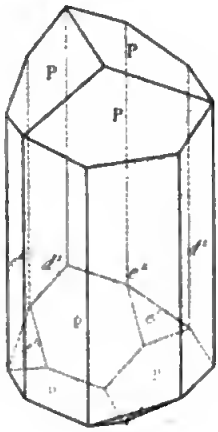

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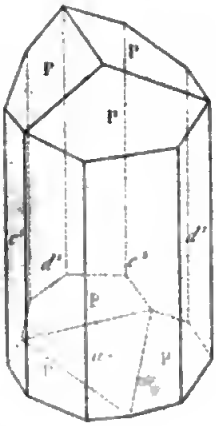

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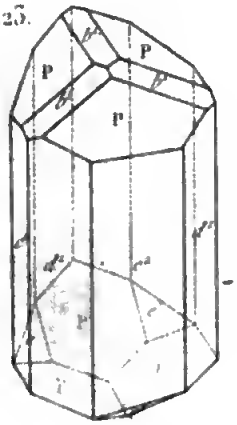

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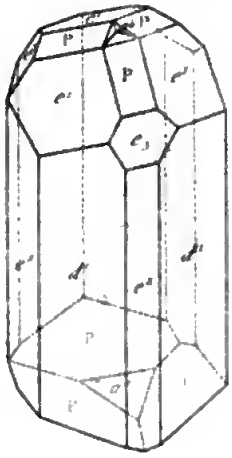
TOURMALINE

Fig 424



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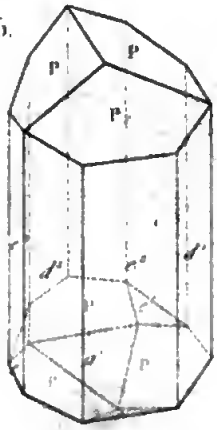

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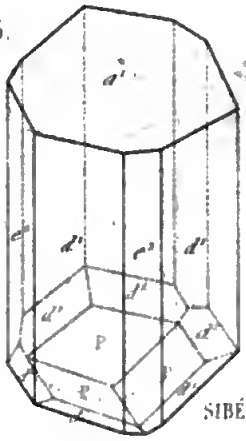

SIBÉRITE

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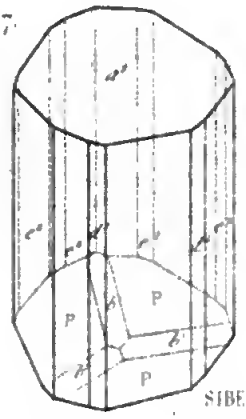

SIBÉRITE

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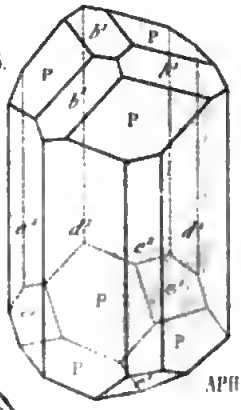
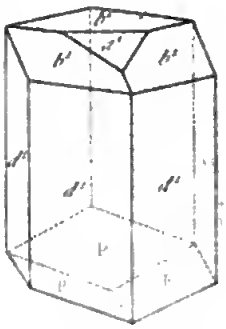


APYRIZITE

Fig 429.



INDICOLITE

VITTORIO EMANUELE III - NAPOLI

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TOURMALINE

Fig 450

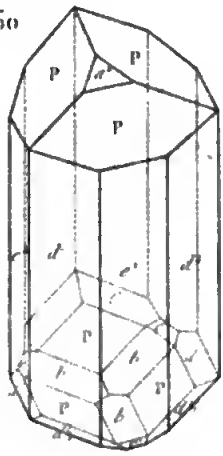
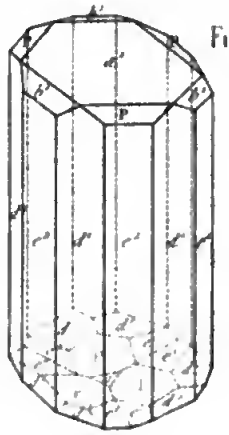


Fig 451



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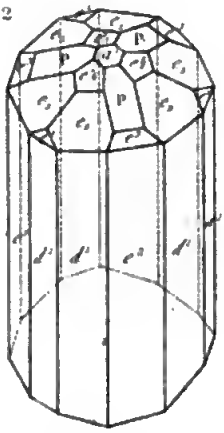

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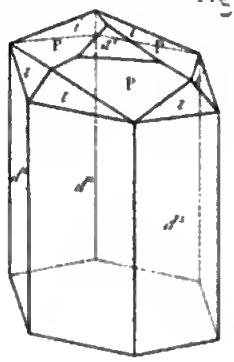

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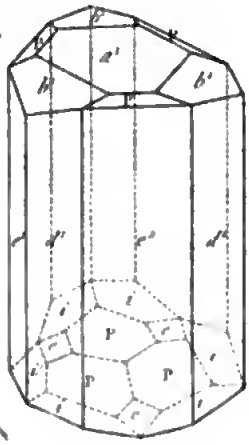
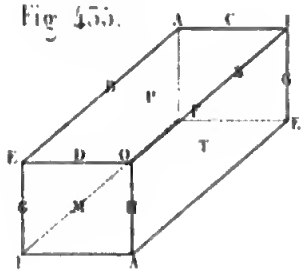


AXINITE.

Fig 455.



AXINITE.

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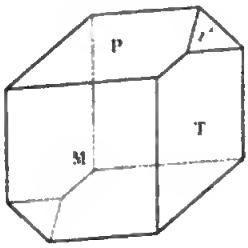

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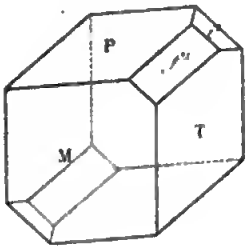

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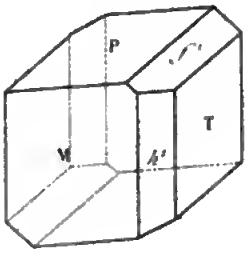


Fig 459

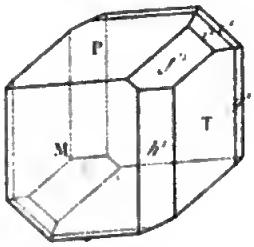


Fig 440

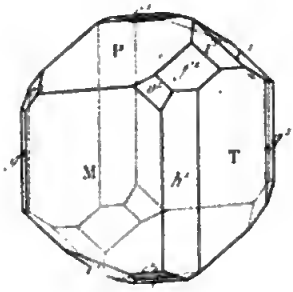
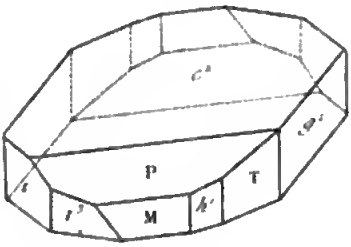


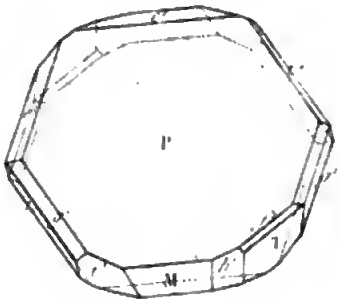
Fig 441



VITTORIO EMANUELE
NAPOLI

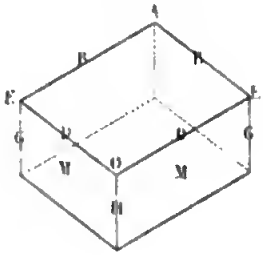
AXINITE

Fig. 443



SPHÈNE

Fig. 445



GREENOVITE

Fig. 444

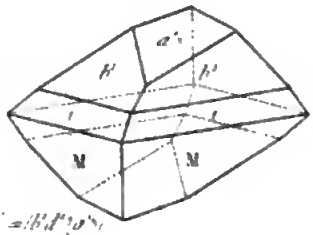


Fig. 445

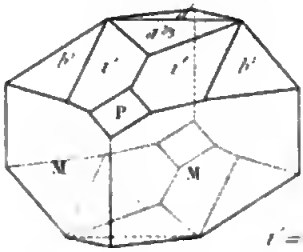


Fig. 446

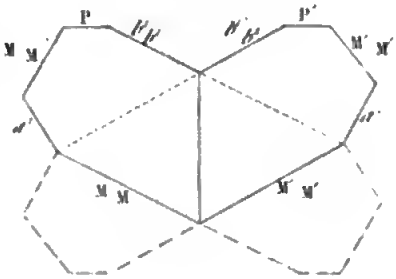
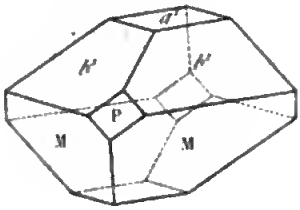


Fig. 447



Nazionale V. E. III NAPOLI

Lemaître del. S. 10

SPHENE.

Fig 448

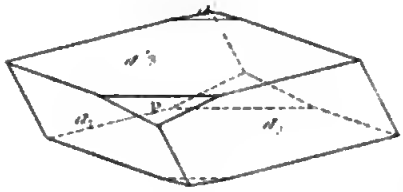
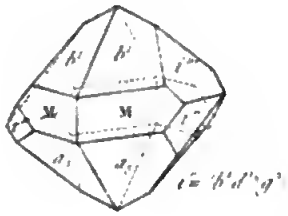


Fig 449



SPHÈNE.

Fig 450.

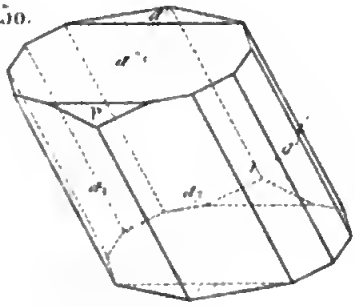


Fig 451.

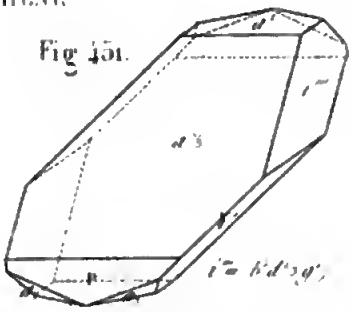
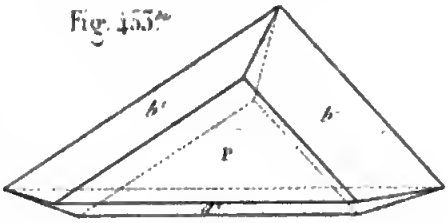


Fig. 455.bis



SPINTHÈRE

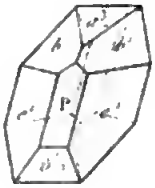
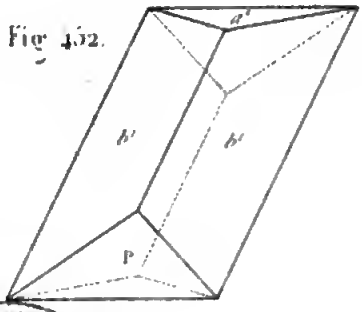


Fig 455.ter

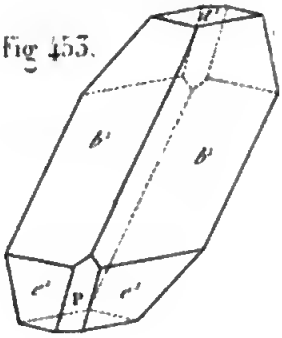
CRISTAUX D'AREXDAL

Fig 452.



SÉMÉLINE

Fig 453.



BIBLIOTECA NAZ. VITTORIO EMANUELE III NAPOLI

SPINELLANE

Fig 454

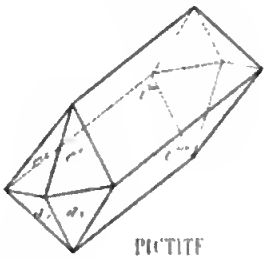


Fig 455.

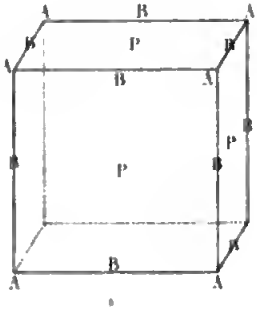
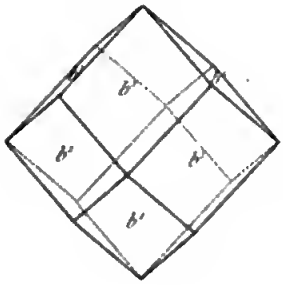


Fig 456



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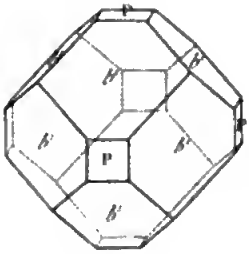
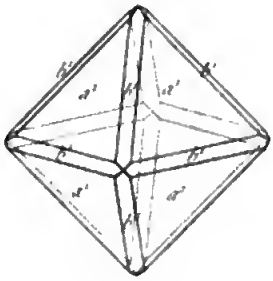
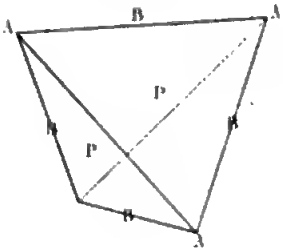


Fig 458



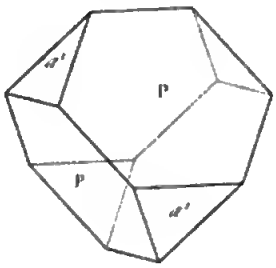
HELVINE

Fig 459



HELVINE.

Fig 460.



SPINELLE

Fig 461

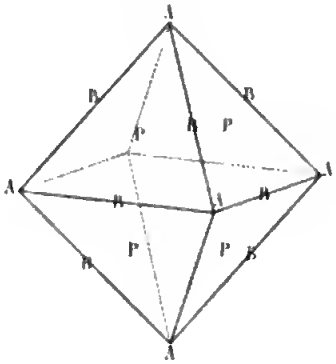


Fig 462

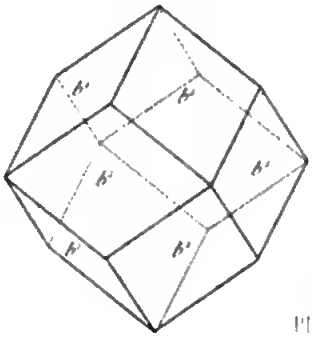
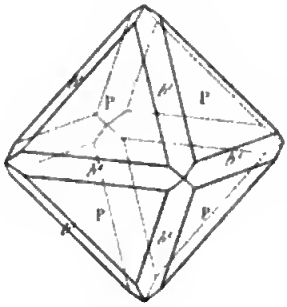
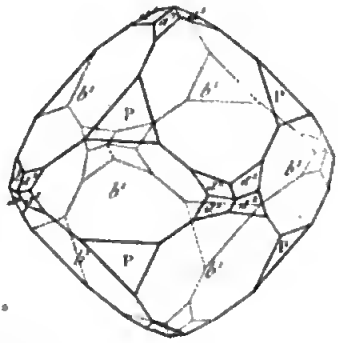


Fig 463.



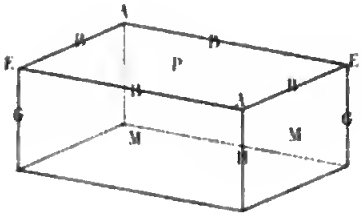
PLÉONASTE

Fig 464



CYMOPHANE

Fig 465.



VITTORIO EMANUELE III - NAPOLI

CYMOPHANE

Fig. 466.

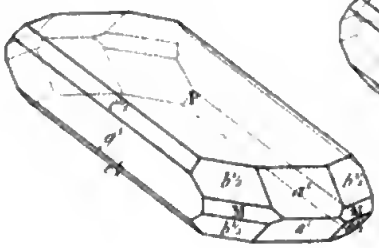


Fig 467

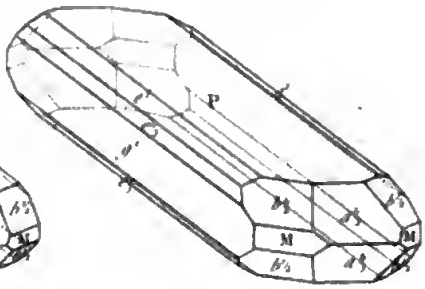


Fig 468

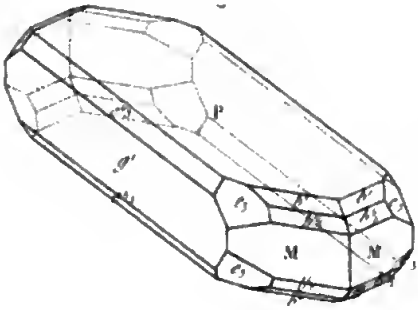


Fig 469.

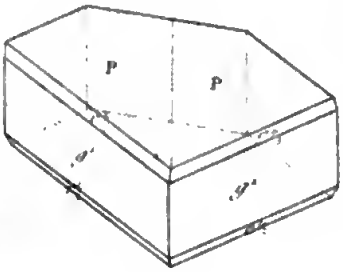


Fig 470.

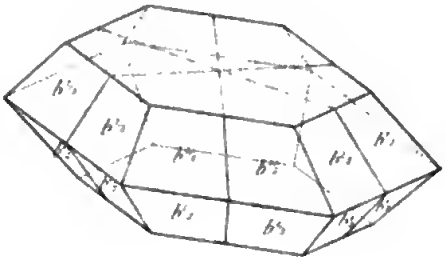
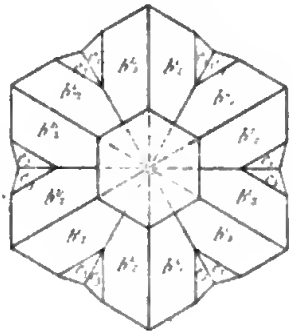


Fig 471



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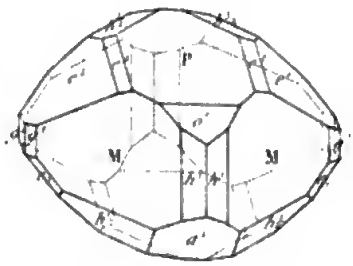
TURNÉRITE.

Fig 472



MELLITE.

Fig 473

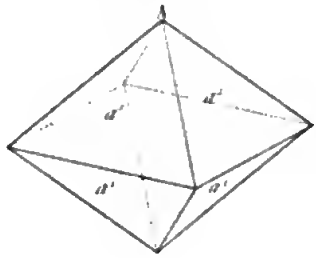


Fig 474

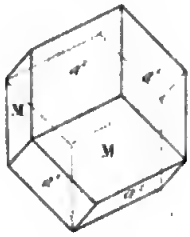
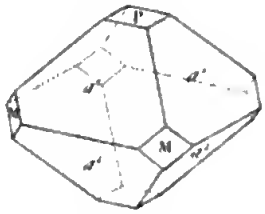


Fig 475



ERÉMITE.

Fig 476

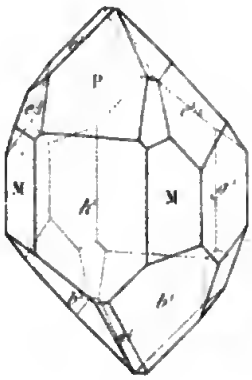
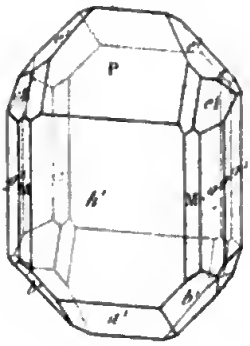


Fig 477



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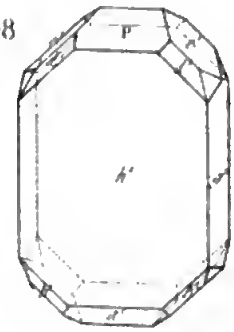
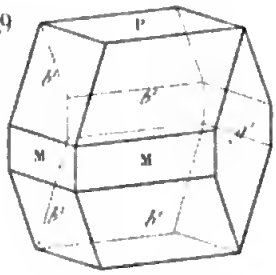
ERÉMITE

Fig 478



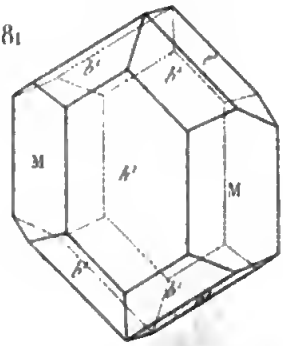
FORSTÉRITE

Fig 479



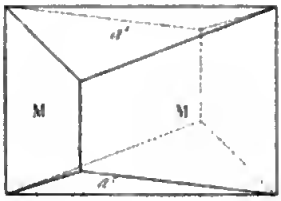
HERDERITE

Fig 481



GIBSONITE

Fig 480



STREVITE

Fig 482.

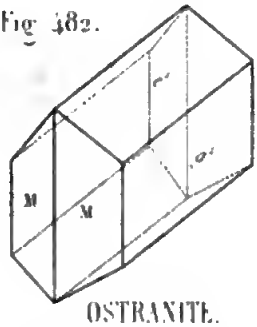
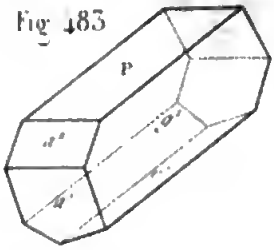
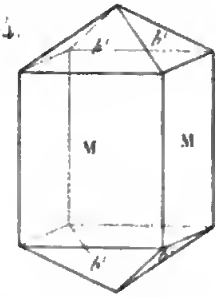


Fig 483



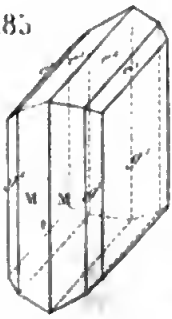
OSTRANITE.

Fig 484.



PLACODINE

Fig 285



NAPOLI

TABLE DES PLANCHES

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Allanite.	P. 53,	fig. 6 et 7.
Albite.	P. 166 à 169,	fig. 123 à 140.
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Amphibole.	P. 196 à 198,	fig. 310 à 320.
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— chloruré.	P. 143,	fig. 566 à 568.
— natif.	P. 134,	fig. 508 à 510.
— sulfuré.	P. 136 et 137,	fig. 519 à 526.
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ERRATA DU TROISIÈME VOLUME.

Pag. 4 lignes 4 en montant; *au lieu de* $6PbS + SbS^3$ *lisez* $6PbS + Sb^2S^3$.

4 à la note (1) — Bohman *lisez* Bohmen.

7 13 en montant; — 0,003, *lisez* 0,0003.

11 10 *id.* — dolomotique, *lisez* dolomitique.

12 pour la formule de la géokronite; — $Pb^5(Sb,As)^3$, *lis.* $Pb^5(Sb,As)^3 + PbS$.

13, notes 3 et 4; — Ebendas, *lisez Annales de Poggendorff.*

27 10 en descendant; — d'Heulgoat, *lisez* d'Huelgoat.

33 1 *id.* — $PbC^2 + PSu^3$, *lis.* $PbC^2 + PbSu^3$.

40 6 *id.* — $Pbsu^3 + CuAq$, *lis.* $PbSu^3 + CuAq$.

41 21 *id.*

		Rapp. atom.				Rapp. atom.	
	Pb^3Ph^3	0,018	3		Pb^3Ph^3	0,018	3
Au lieu de	.....	0,006	1	*lisez*	$PbCl^2$	0,006	1
	$PbCl^2$						

41 A lire en note (1).

45 Au bas de la page,

		Rapp. atom.				Rapp. atom.	
	.....	0,0176	3				
Au lieu de	.....	0,0057	1	*lisez*	Pb^3As^4	0,0176	3
	Pb^5As^3				$PbCl^2$	0,0057	1
	$PbCl^2$						

65 4 en descendant; *au lieu de* $SnS + Cu^2S + FS^2$, *lisez* $SnS + Cu^2S + FS^3$.

73 1 *id.* — Schlackenwalder, *lis.* Schlaggenwald.

73 8 *id.* — la Vilder, *lisez* la Villeder.

92 9 *id.* — Frankerberg, *lisez* Frankenberg.

130 9 *id.* — a', et a', *lisez* a' et e'.

145 22 *id.* — Kupter smaragd, *lisez* Kupfersmaragd.

153 4 *id.* — d'oxyde cuivre, *lisez* d'oxyde de cuivre.

165 18 *id* — qu'e, *lisez* qu'en.

Pag. 184 lignes 21 en descendant; — *dunklees*, lisez *dunkles*.
210 6 en montant; — un mètre cube, *lisez* un mètre cube de gravier.
211 en desc. et dans le tableau; — Elder, *lisez* Eder.
214 12 en descendant; — la découverte a, *lisez* la découverte est.
236 6 *id.* — 98,39, *lisez* 98,30.
238 11 *id.* — alumine... 49,96 54,72 52,1, *lisez*:
alumine.. 49,96 54,72 52,01.
239 16 *id.* — La sphène, *lisez* le sphène.
251 1 *id.* — Salvatat, *lisez* Salvétat.
267 4 en montant; — propiété, *lisez* propriété.
272 note (1) — *Ebendas*, p. 258, *lisez* *Schweigger Journal*, t. XXI.
300 6 en montant; — méoinite, *lisez* méïonite.
305 Les sommes 100,00 et 99,84 sont 99,75 et 99,89.
308 Dans l'analyse de la gehlénite, par Kobell, pour somme, *au lieu de* 99,60, *lisez* 99,69.
309 11 en descendant; *au lieu de* BERGEMANN, *lisez* Bergmann.
310 Dans l'analyse de la glaucolite, pour la somme, *au lieu de* 99,113, *lisez* 99,117.
360 9 en montant; *au lieu de* d'un poise, *lisez* d'un pois.
404 dans les angles de la néphéline :

Au lieu de :	*Lisez :*
M sur M = 150°	M sur M = 120°
M sur g^1 = 150°	M sur h^1 = 150°
P sur g^1 = 90°	P sur h^1 = 90°

405 La somme de l'analyse de Scheerer est 100,58, *au lieu de* 100,32.
411, au bas de la page, *au lieu de* Oxyg. *lisez*: Oxyg.

4,02	12,38	4,02	7,09
3,07		3,07	
9,00	7,09	9,00	12,38
2,59		2,59	
0,25		0,25	
0,54		0,54	

425 La somme de l'analyse de Fuchs est 99,97 *au lieu de* 99,16.
431 Angles de la mésolite, par Phillips ;

Au lieu de :	*Lisez*
M sur $b^{1/8}$ = 147°	M sur $b^{1/3}$ = 147°.
M sur h^4 = 161° 40′	M sur h^3 = 161° 42′.

Pag. 434 La somme de l'analyse de Delesse est 95,5, *au lieu de* 100.
489 Dans l'analyse de Klaproth, la somme est 97,25, *au lieu de* 99,50.
502 Analyse de la karpholite, 2e analyse, la somme est de 98,793 *au lieu de* 98,794.
513 La somme de l'analyse de Varrentrapp est 99,12, *au lieu de* 99,40.
520 Les sommes 98,29 et 100 doivent être remplacées par 98,20 et 98,29.
524 La somme est 100,20 et non 100.
529 On a déjà décrit (p. 440 de ce volume) une variété d'heulandite, sous le nom d'édelforsite.
549 Les sommes 100,65 et 100,55 sont 100,64 et 100,38.
551 La première somme est 96,49, *au lieu de* 97,88.
564 ligne 1 en montant : *au lieu de* l'expression n d, *lisez* l'expression de.
571 La somme est 99,04, *au lieu de* 98,99.
580 Dans l'analyse de la tharcite, *au lieu de* 99,51, *lisez* 99,54.
580 ligne 9 en montant ; — granatite, *lisez* gramatite.
589 Première analyse, somme — 97,47, *au lieu de* 97,10;
Troisième analyse, — 97,04, — 97,06.
598 ligne 15 en descendant ; *au lieu de* Augite calcaréo-magnésienne, *lisez* Augite calcareo-manganesienne.
598 17 *id.* — Augite ferro-magnésienne, *lisez* Augite ferro-manganésienne.
604 Allalite, la somme est 99,40, *au lieu de* 99,45.
606 La somme de la seconde analyse est 97,01, *au lieu de* 98,01.
609 ligne 1 4e mot, *lisez* labrador, *au lieu d'*albite.
624 La somme est 99,92, *au lieu de* 100,00.
639 4 en montant ; *au lieu de* 0m,002, *lisez* 0milliim.,002.
641 10 en descendant ; — 60° à 76°, *lisez* 50 à 76°.
645 Premiere analyse, la somme est 101,63, *au lieu de* 101,59.
650 5 en montant ; *au lieu de* micas à lithion. *lisez* micas à lithine.
651 4 en descendant ; — Vaolry, *lisez* Vaulry.
659 13 en montant ; — Cinq rhomboèdres, *lisez* six rhomboèdres.
668 Première analyse, la somme est de 100,456; *au lieu de* 100,420.
692 3 en descendant ; *au lieu de* homigstein, *lisez* honigstein.
721 Houille de Rouille, la somme est 100,7, *au lieu de* 100,0.
730 Tourbe de Reims, ligne 3 en montant ; 39,9, *lisez* 39,7.
737 La mosandrite a déjà été décrite p. 673.
754 La somme 100,7 de la caporcianite est 100,4.
755 La somme de la première analyse est 99,99, *au lieu de* 99,95.

Pag. 769 Les chiffres décimaux représentant l'analyse de la masonite ont été mal placés, ce qui en rend les résultats fautifs. La composition de ce minéral est :

Silice.....	33,200
Alumine.....	29,000
Magnésie.....	0,240
Protoxyde de fer.....	25,934
— de manganèse	6,000
Eau.....	5,600
	99,974

780 Rosite, la somme est 99,487, *au lieu de* 99,476.

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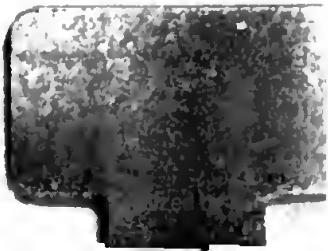
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